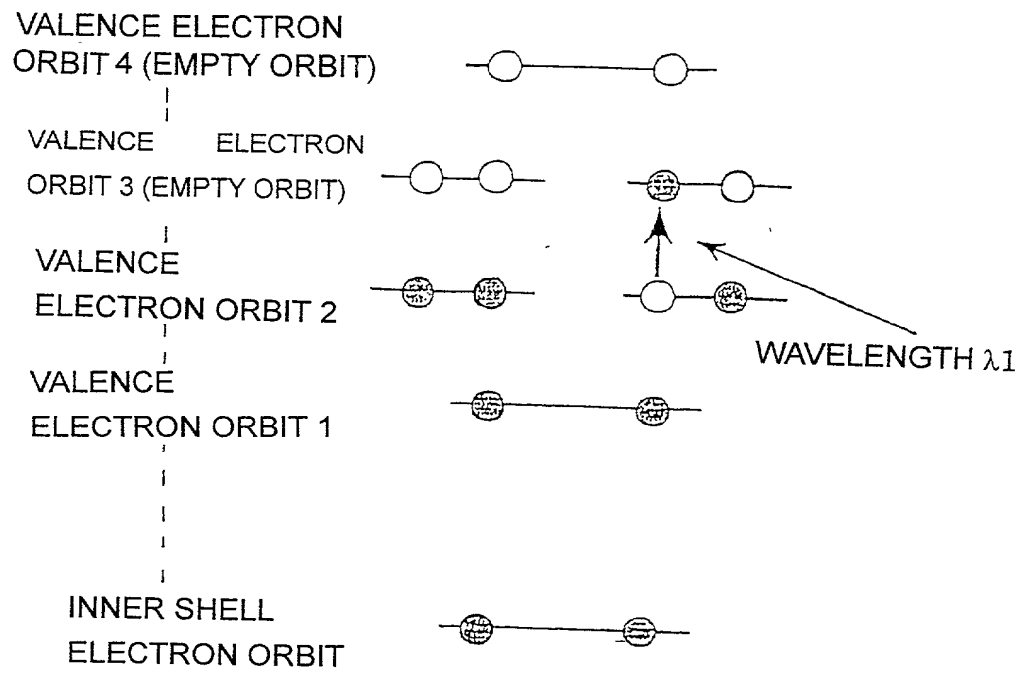
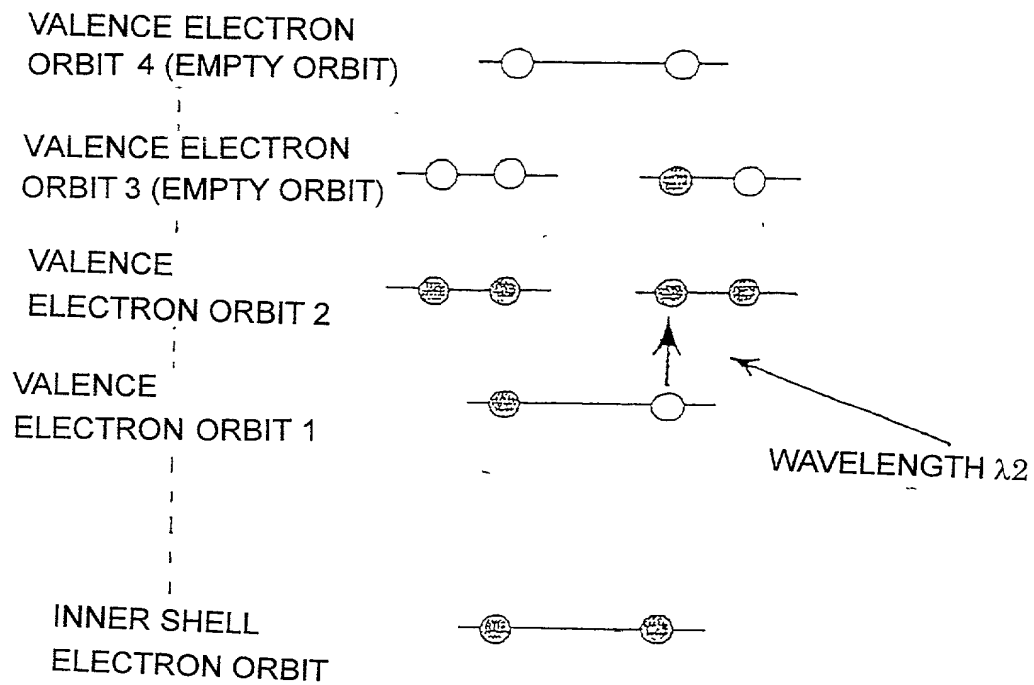


F I G. 1



F I G . 2



F I G. 3

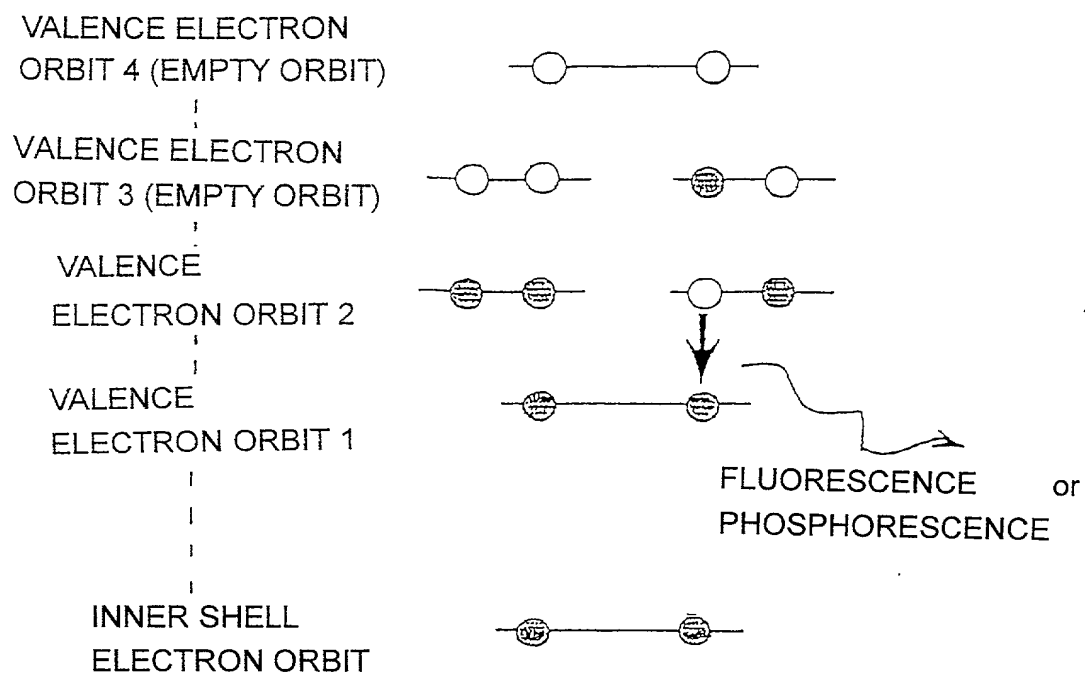
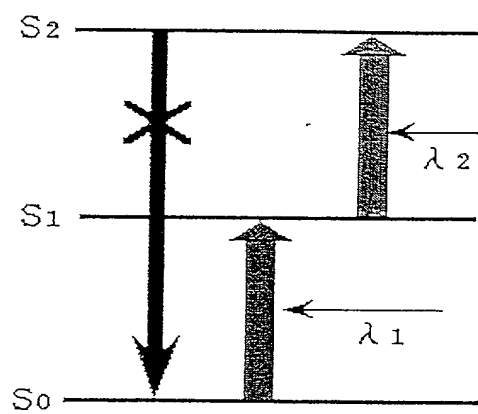


FIG. 4



F I G. 5

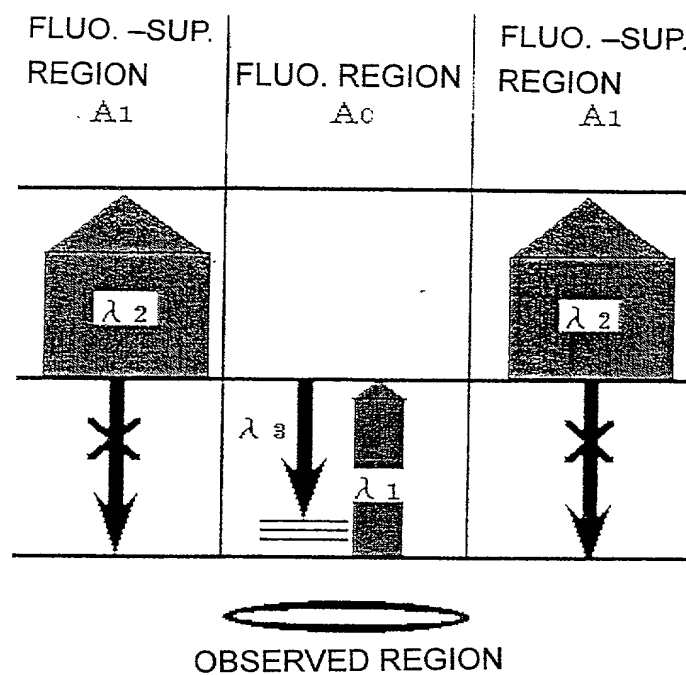


FIG. 6

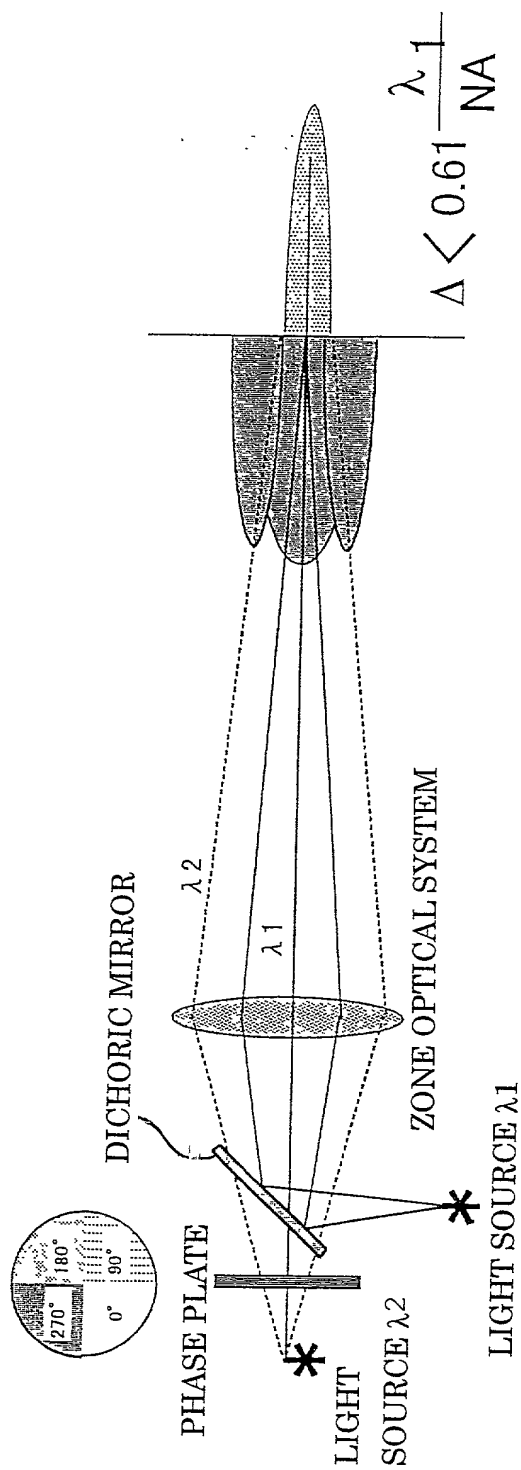
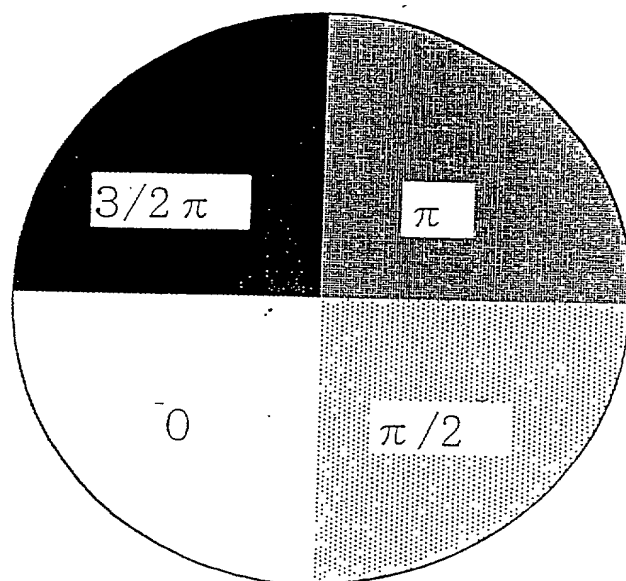


FIG. 7



F I G. 8

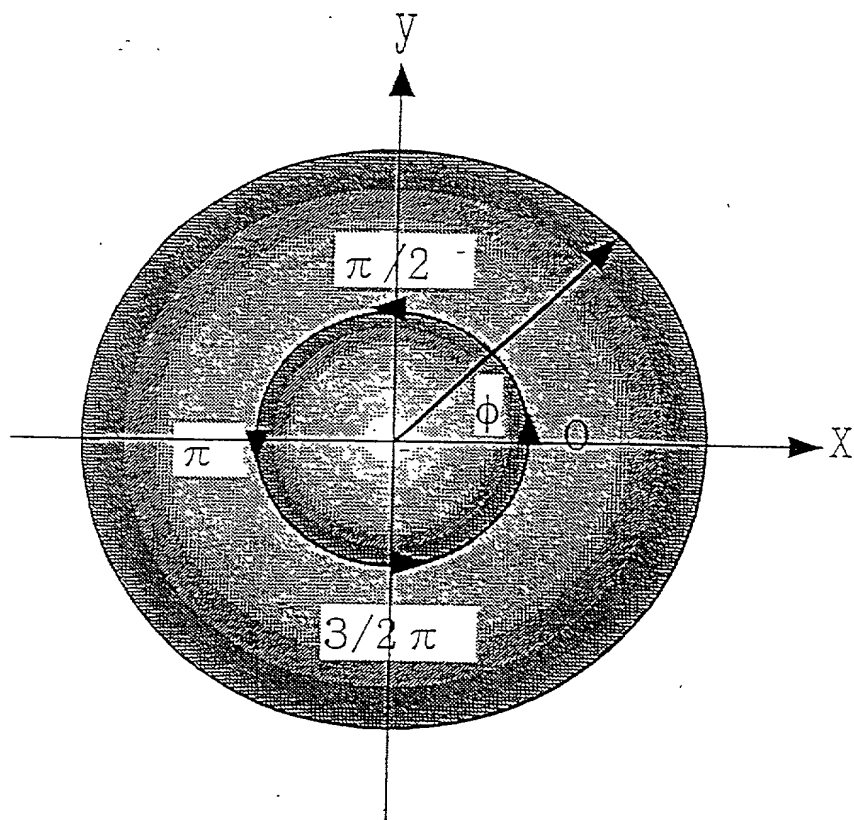


FIG. 9

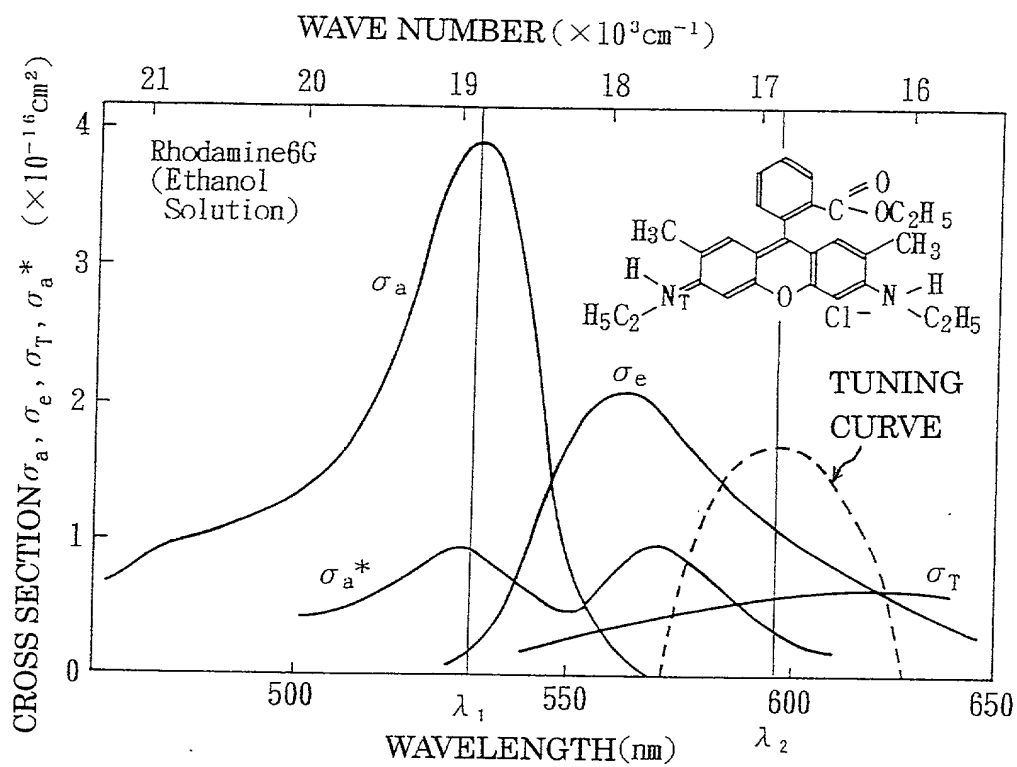


FIG. 10

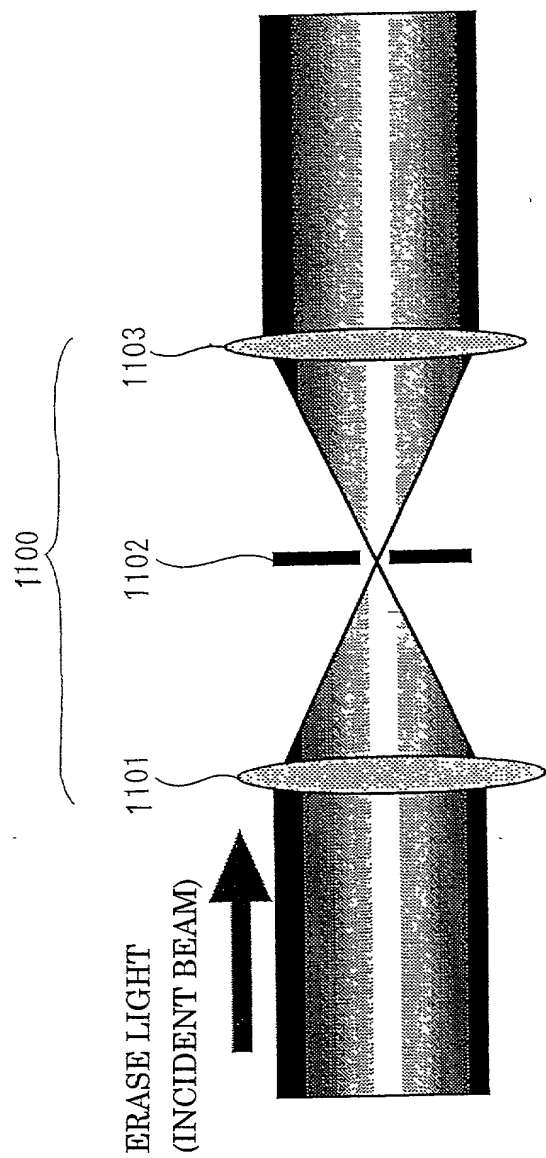


FIG. 11

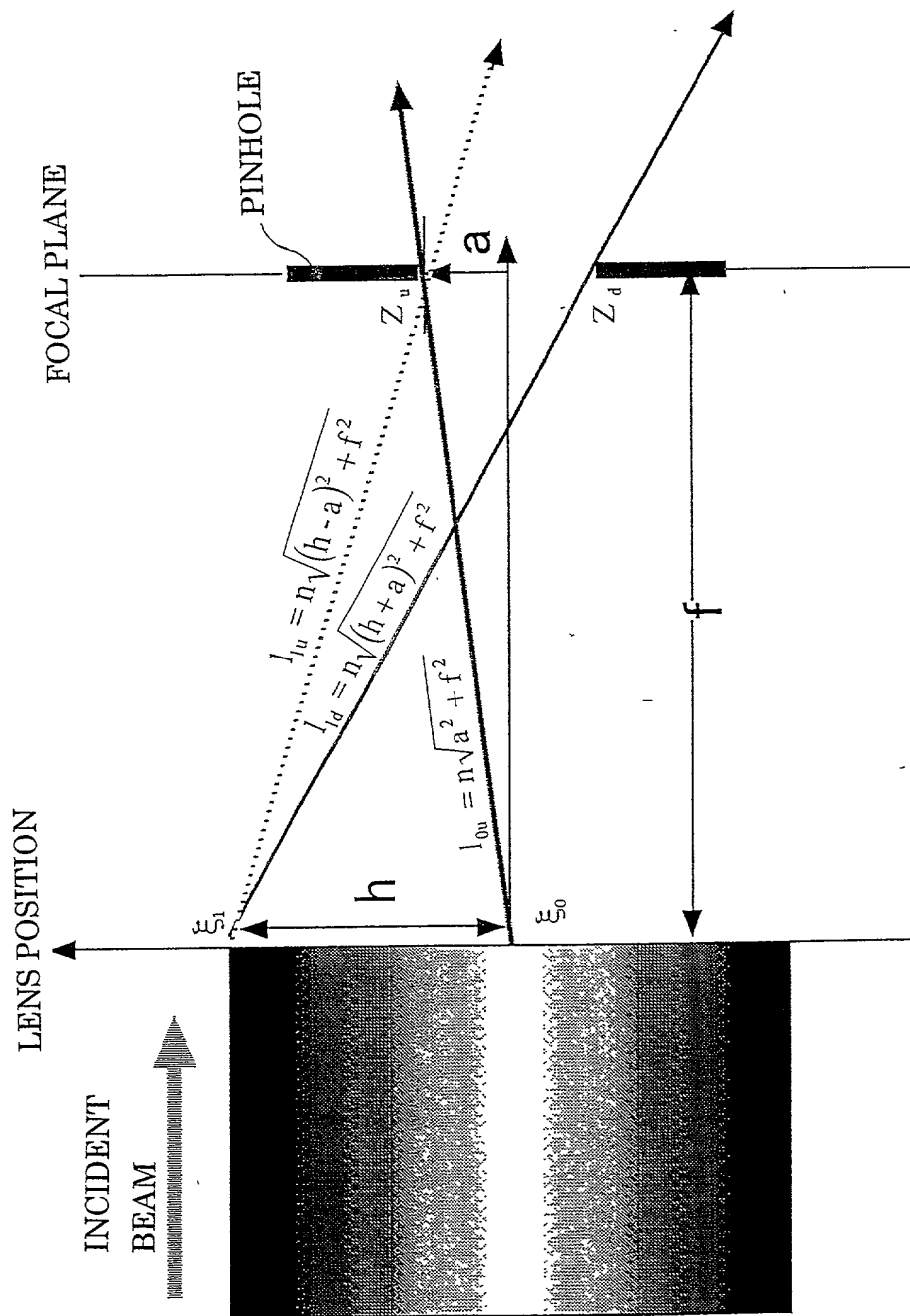


FIG. 12

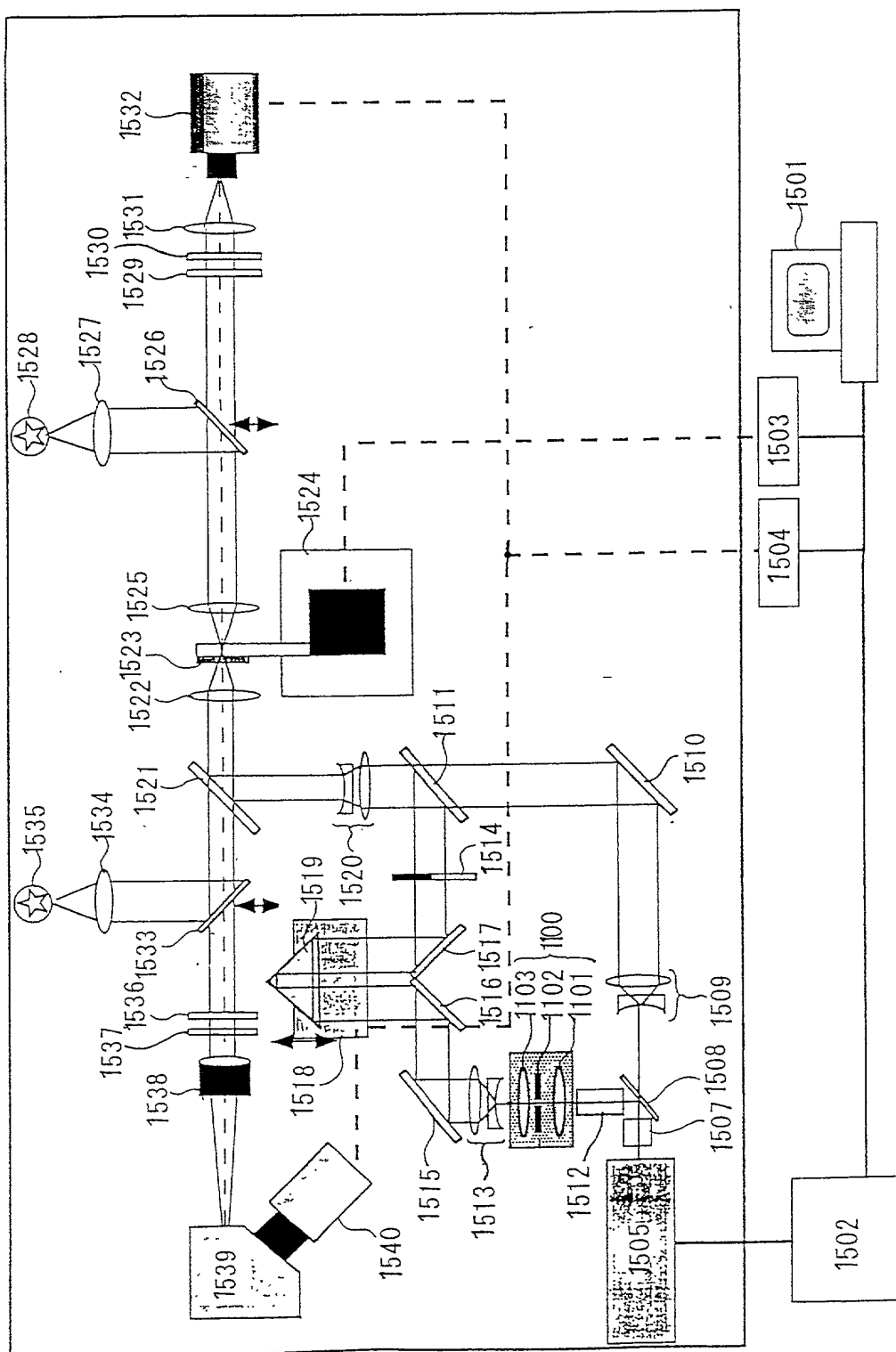
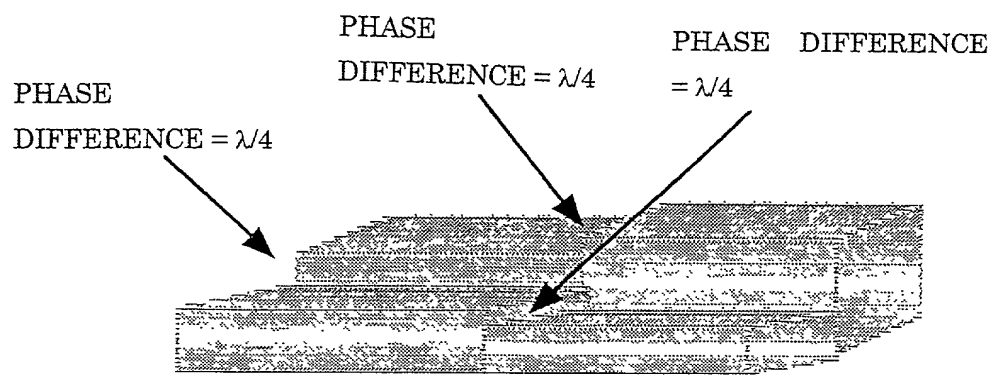


FIG. 13



F I G . 1 4

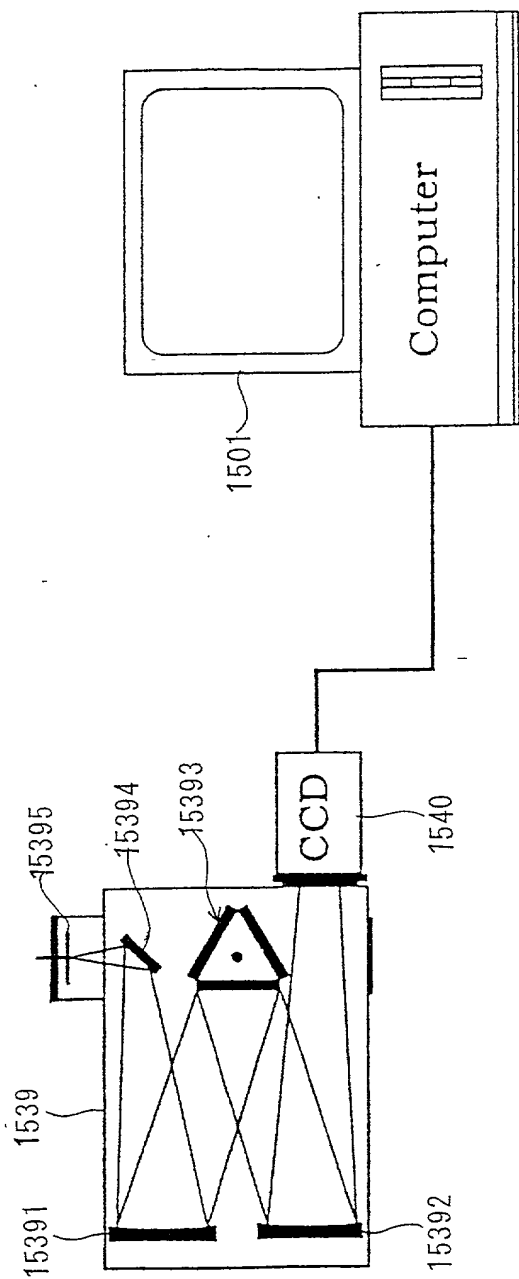


FIG. 15

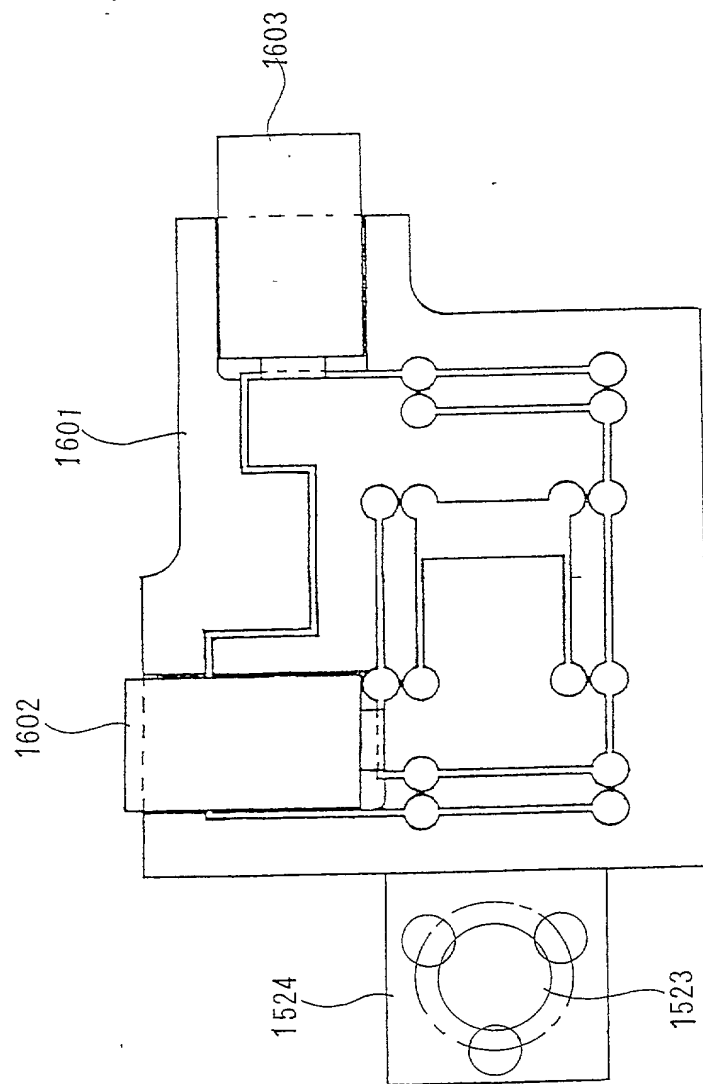


FIG. 16

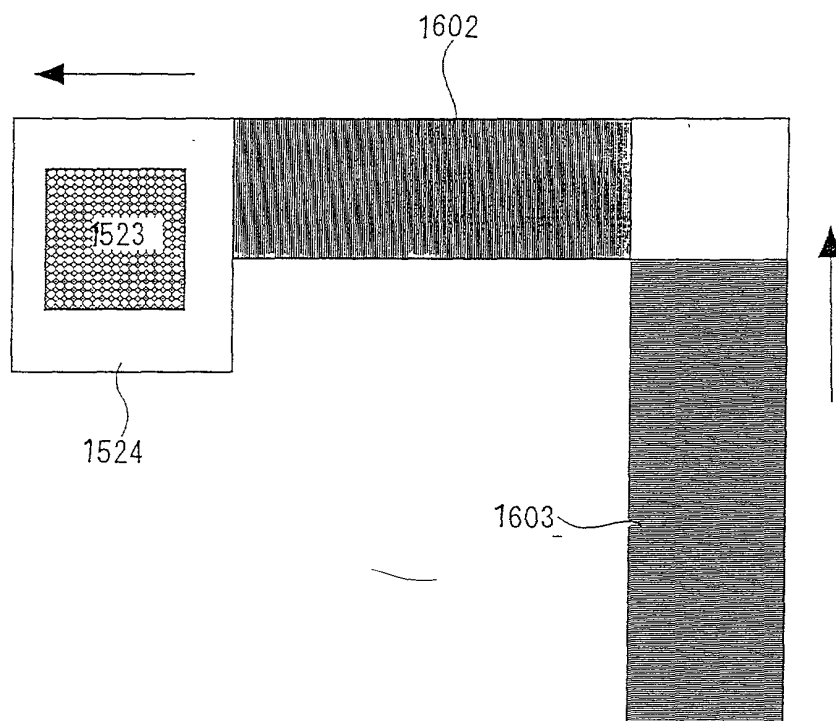


FIG. 17

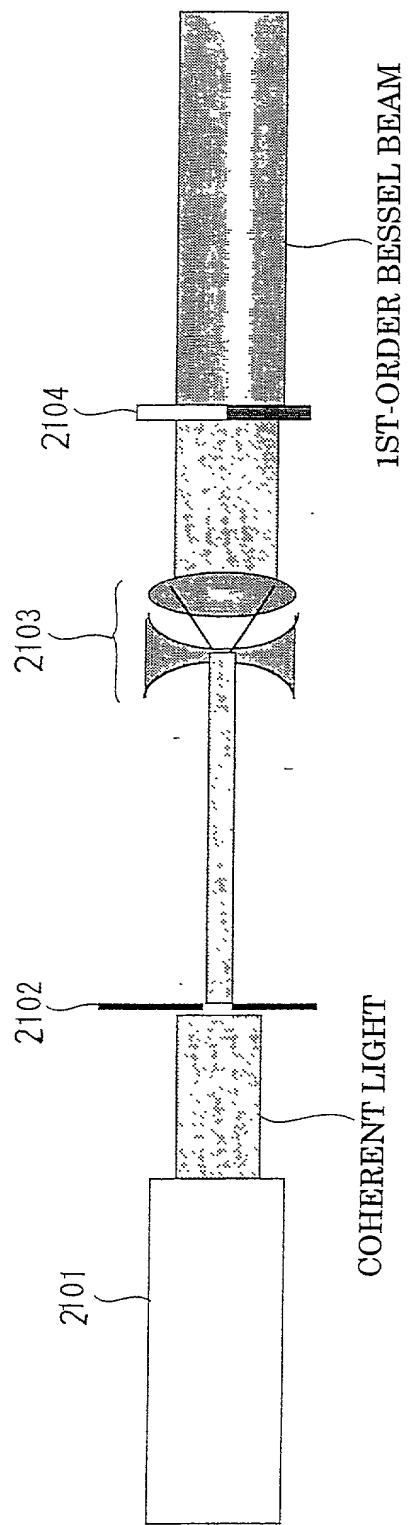


FIG. 18

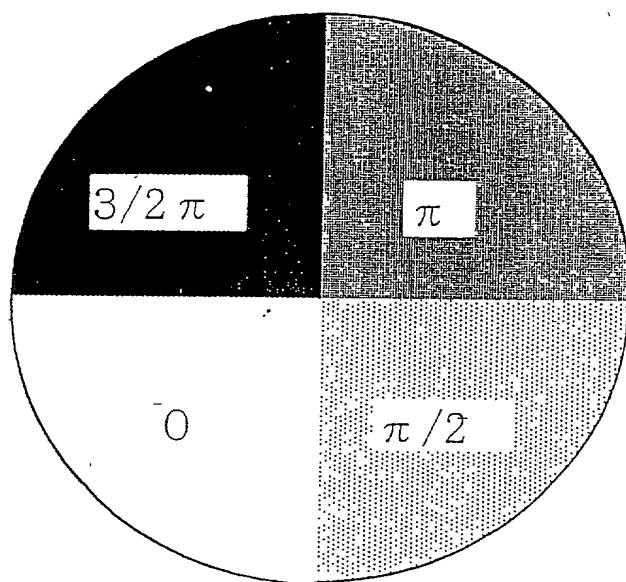


FIG. 19

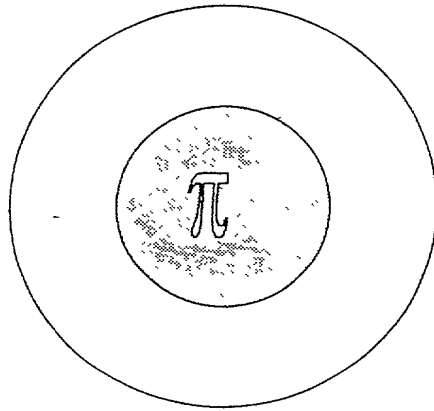


FIG. 20

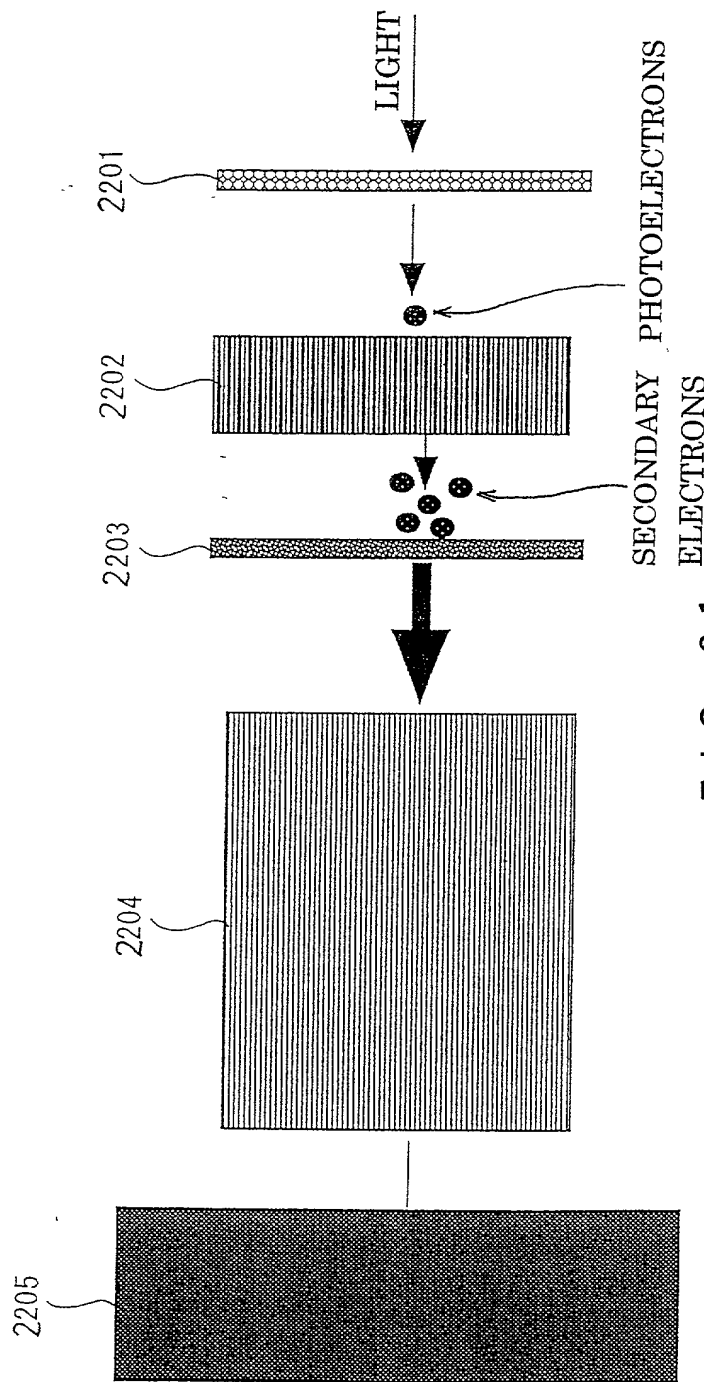
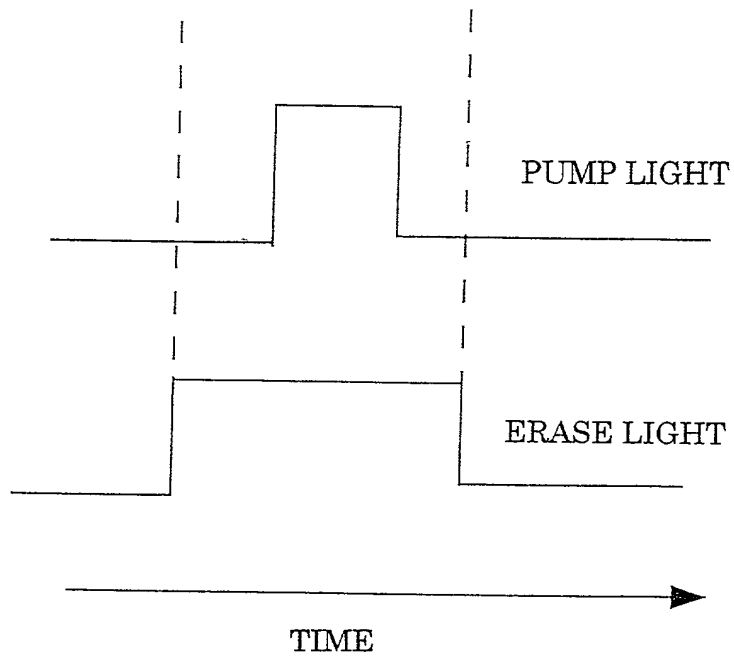


FIG. 21



F I G . 2 2

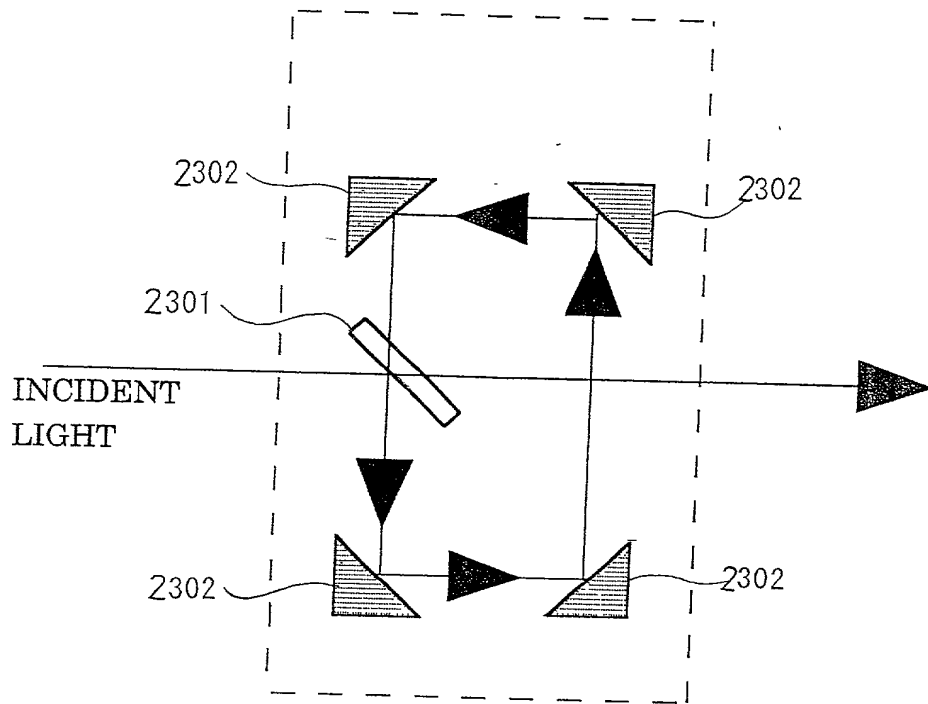


FIG. 23

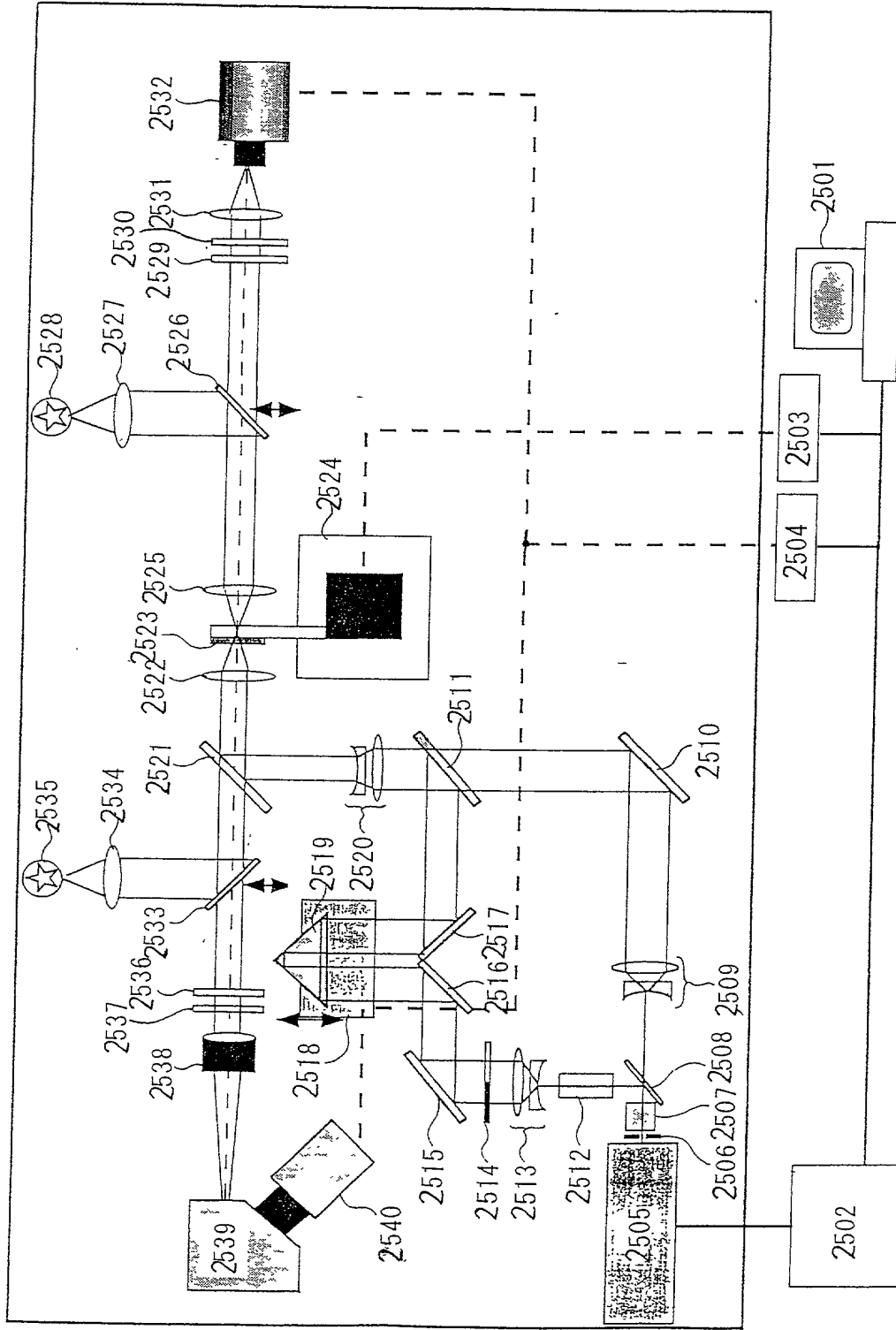
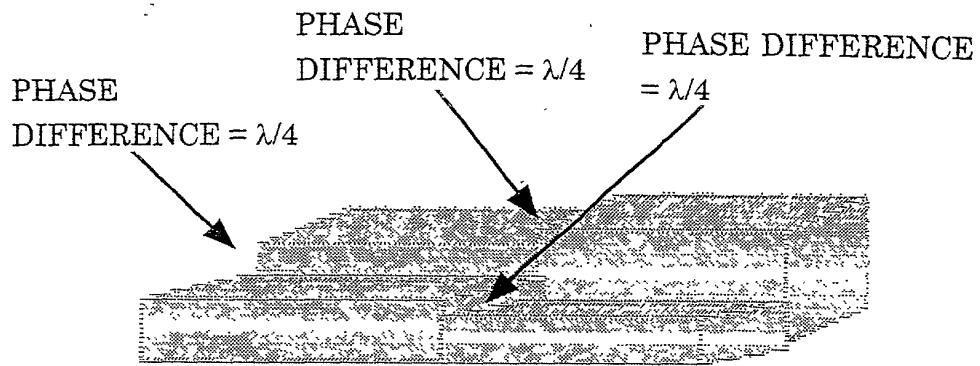


FIG. 24



F I G . 2 5

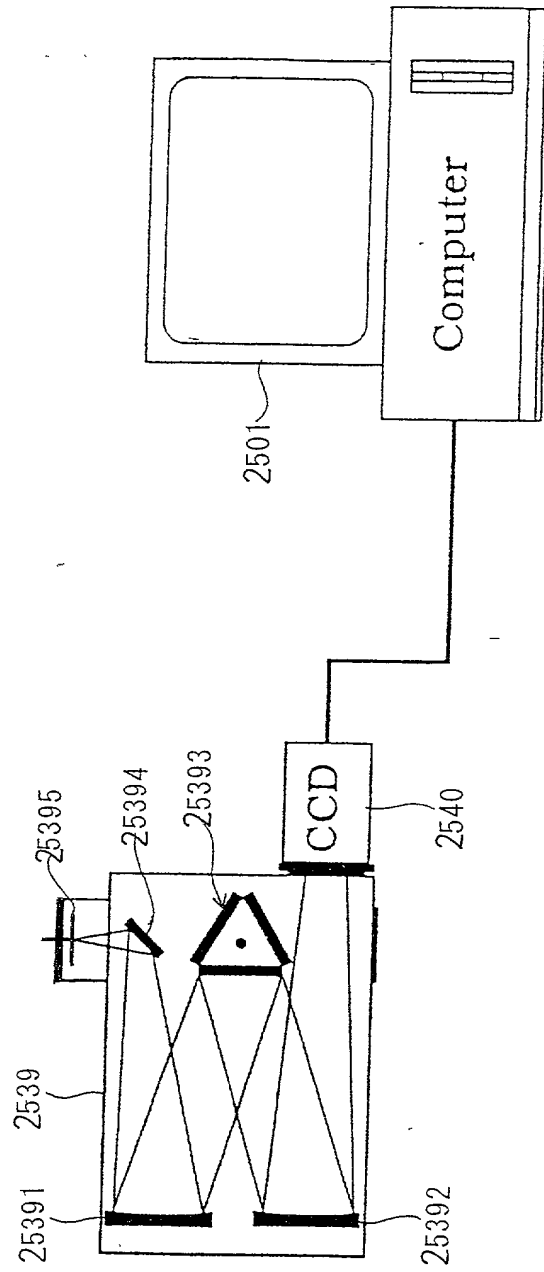


FIG. 26

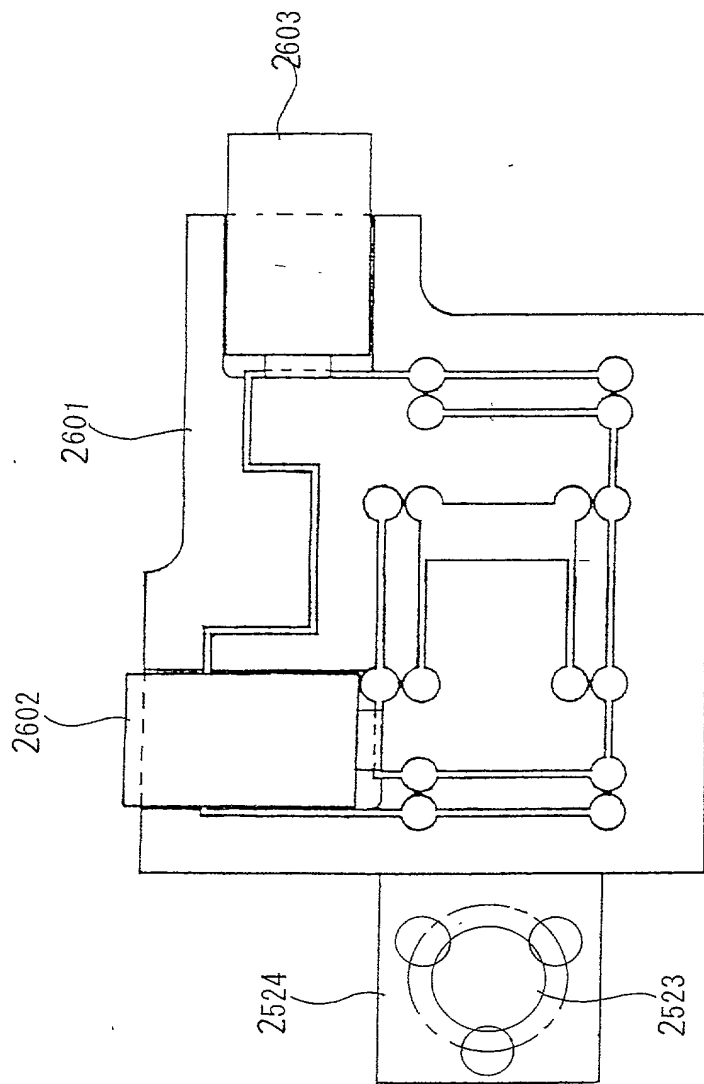


FIG. 27

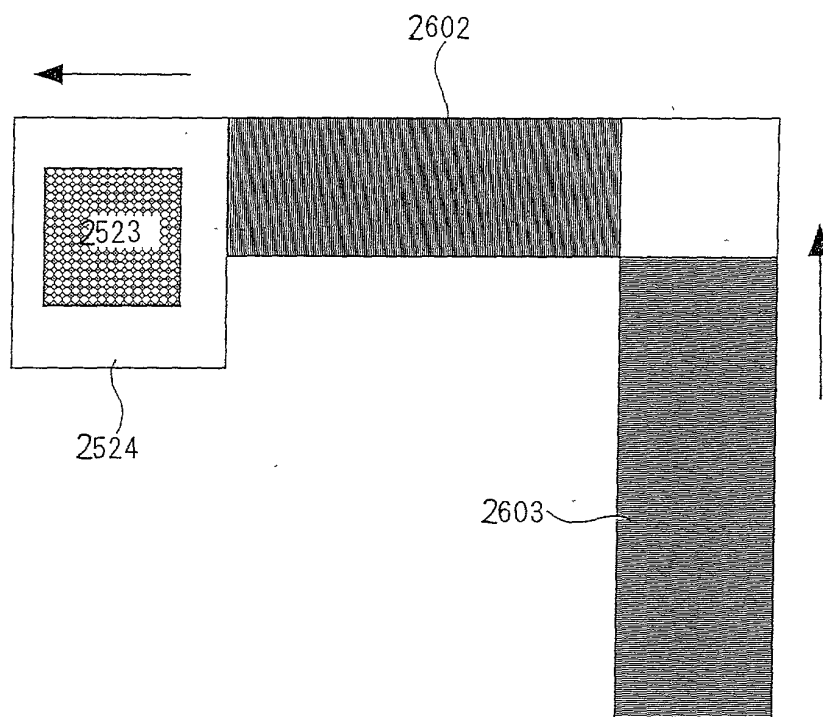


FIG. 28

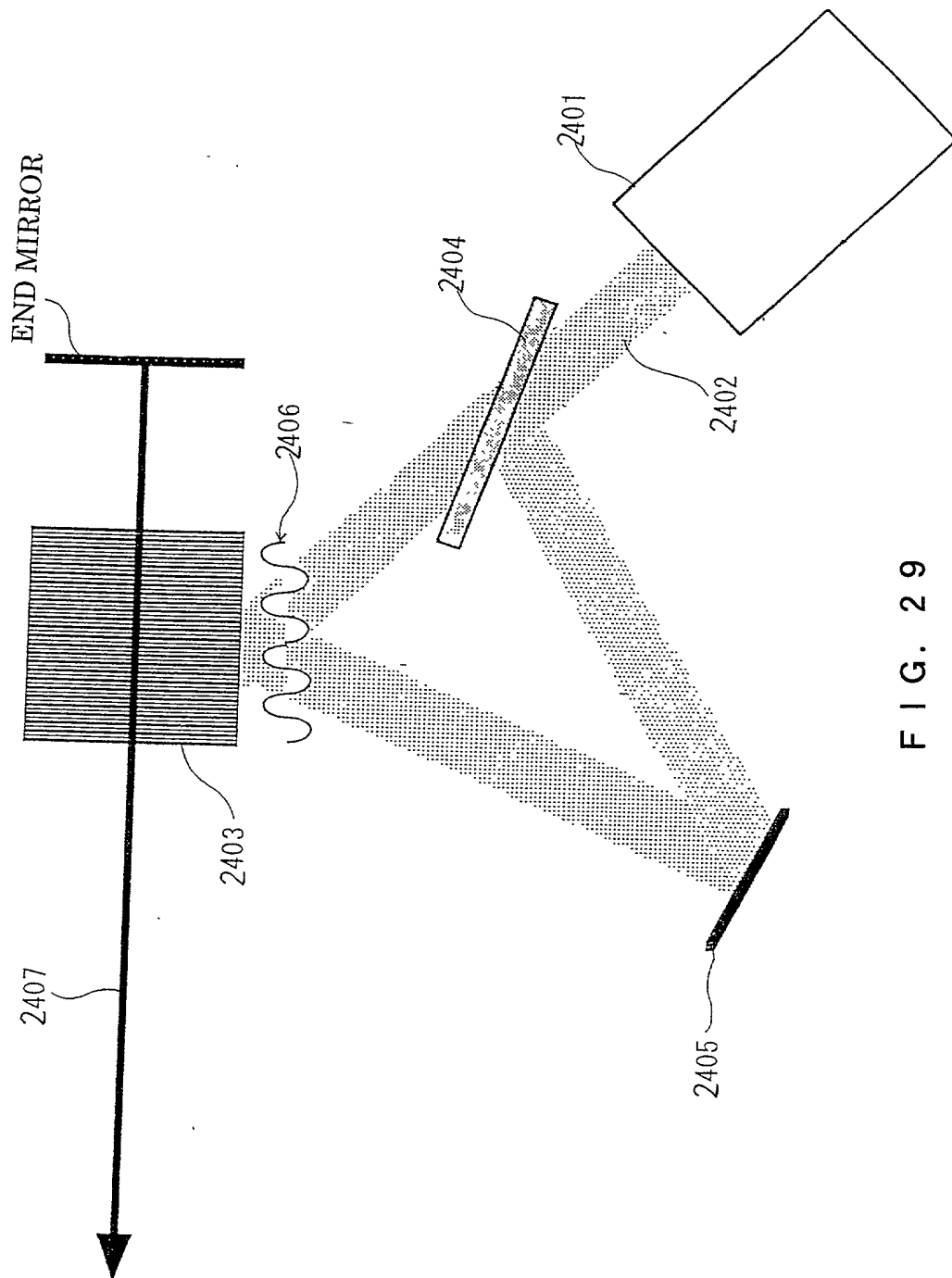


FIG. 29

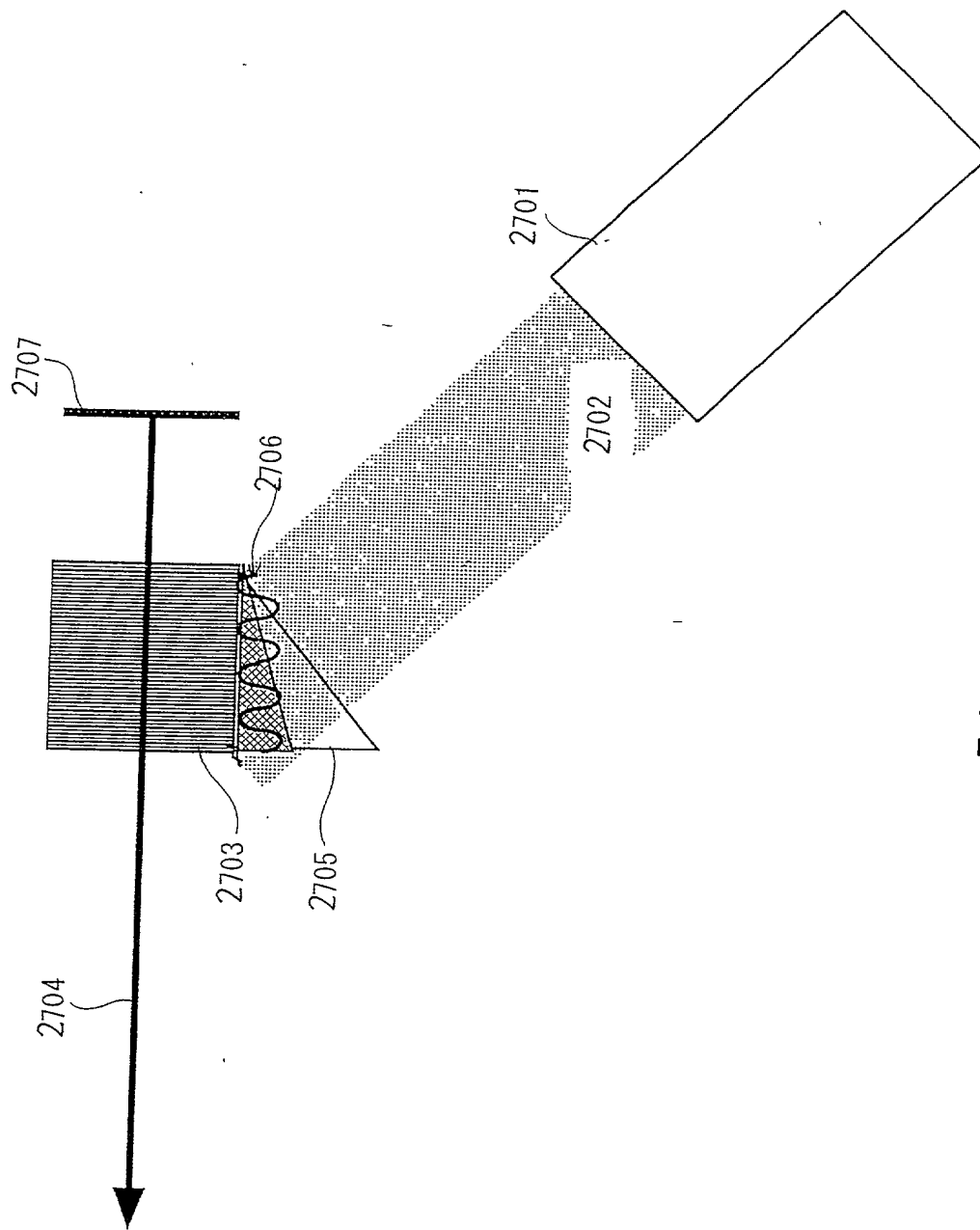


FIG. 30

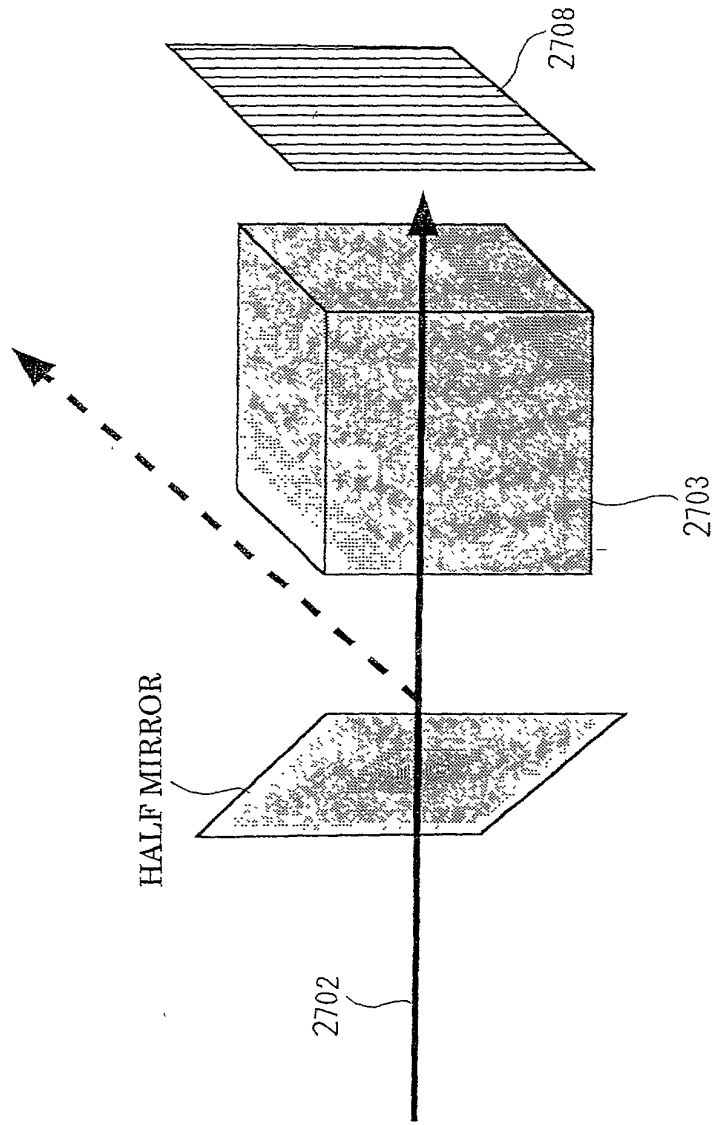
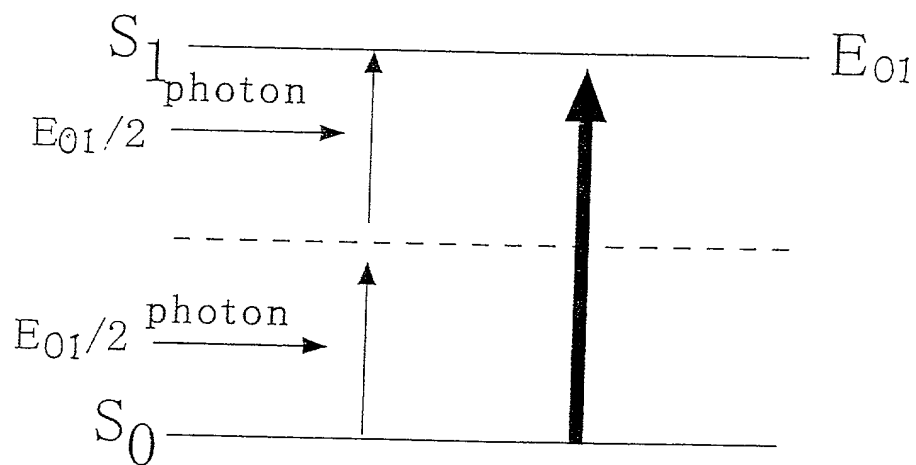


FIG. 31



F I G. 3 2

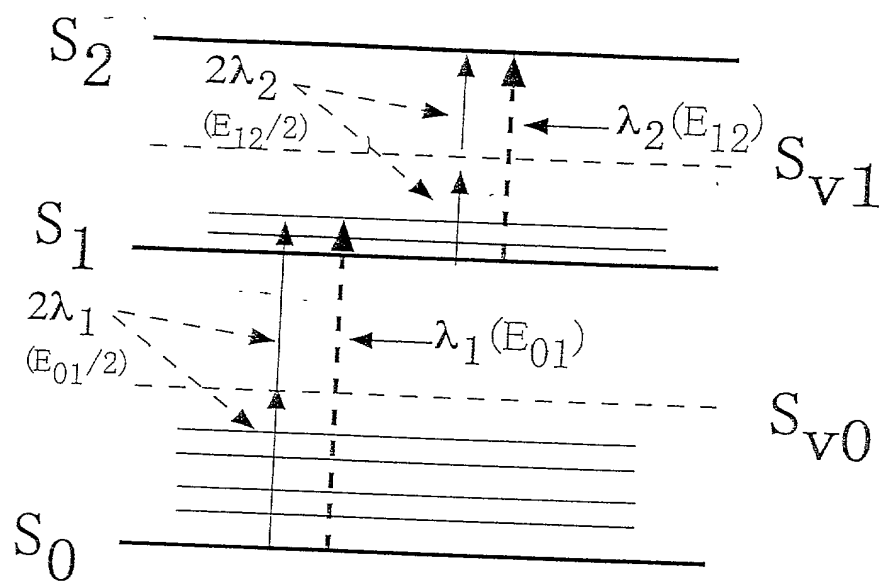


FIG. 33

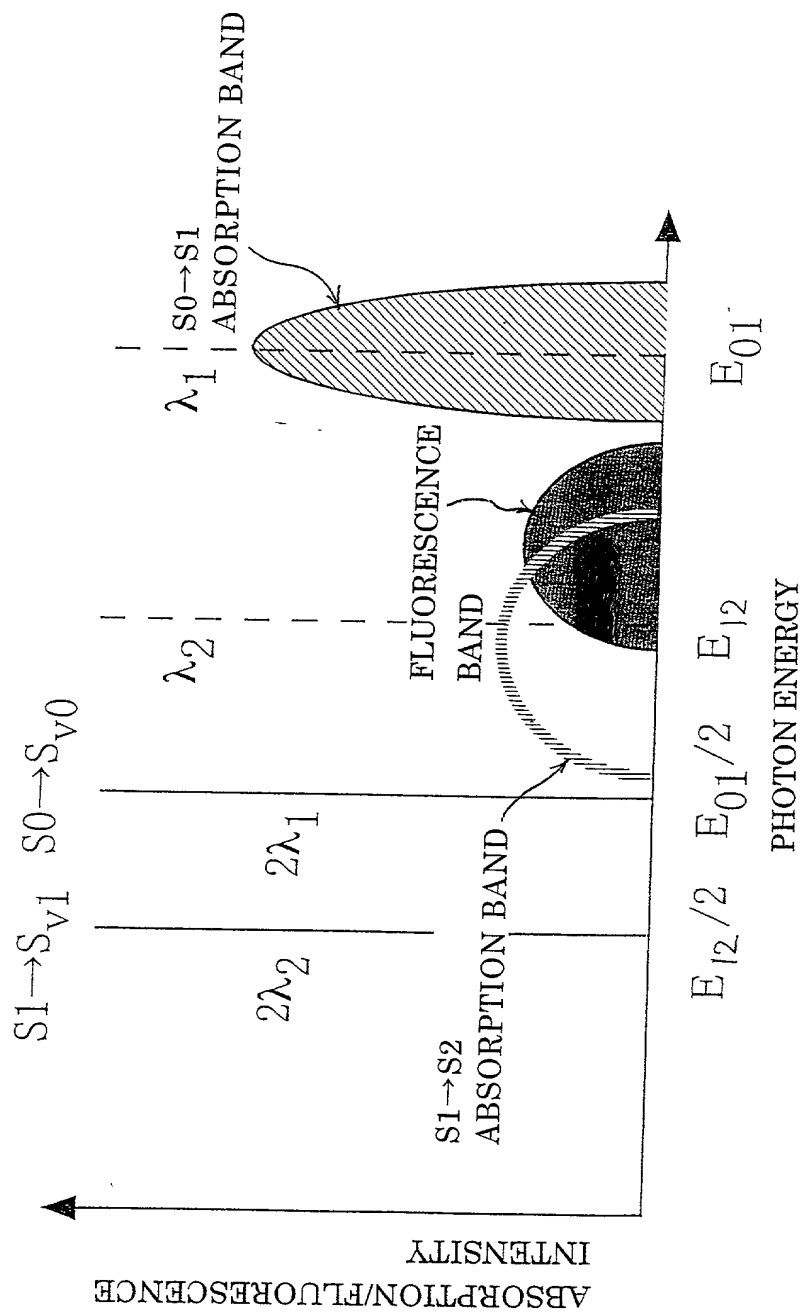
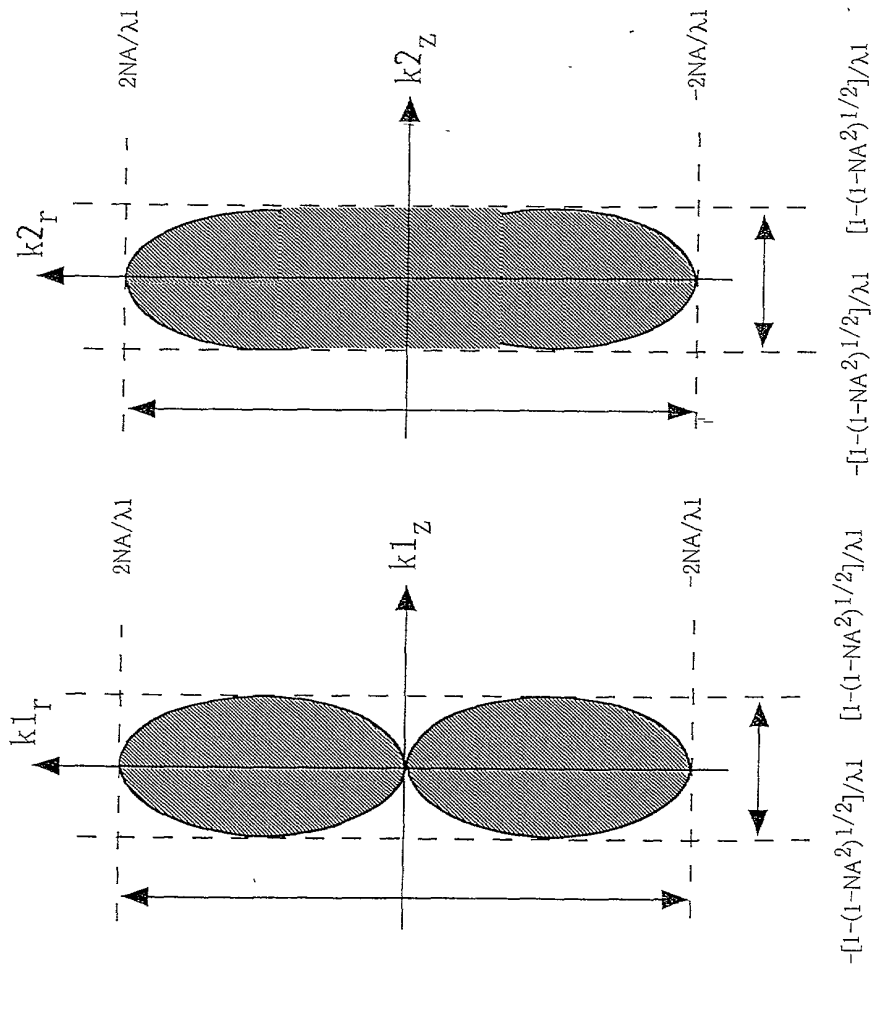


FIG. 34



(a) 1-PHOTON EXCITATION (b) NON-RESONANCE 2-PHOTON EXCITATION PROCESS

FIG. 35

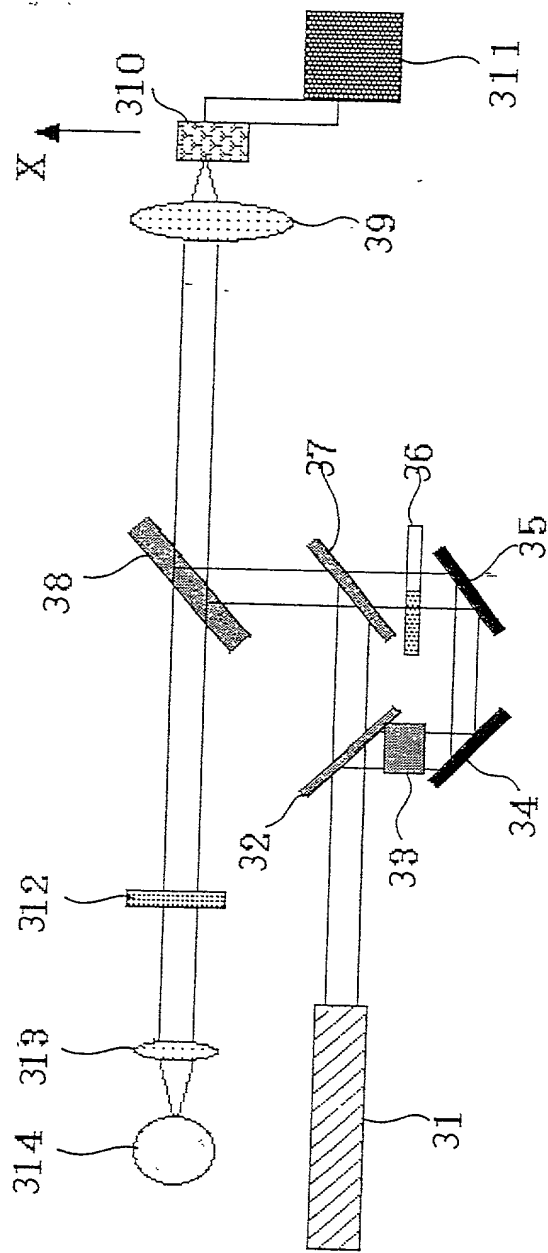


FIG. 36

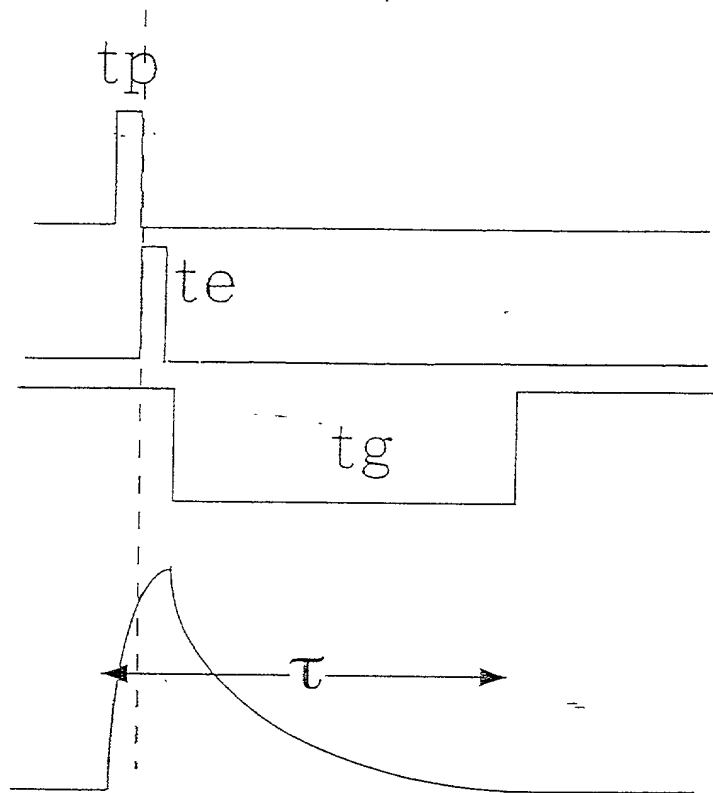


FIG. 37

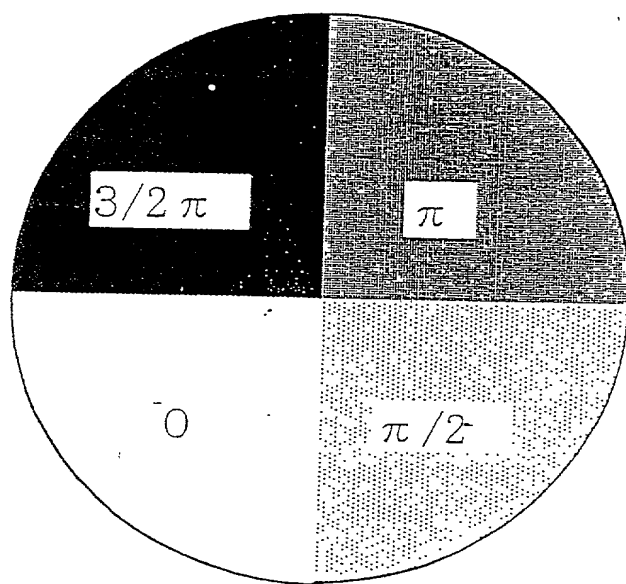


FIG. 38

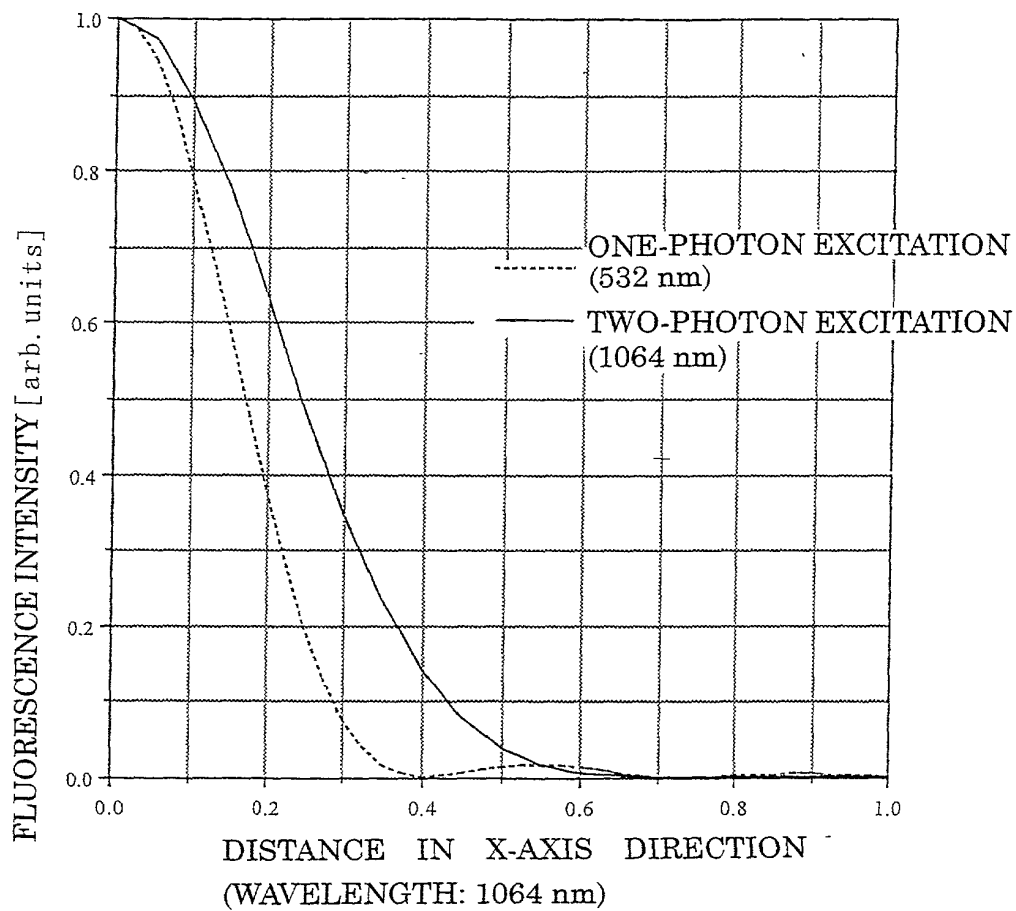


FIG. 39

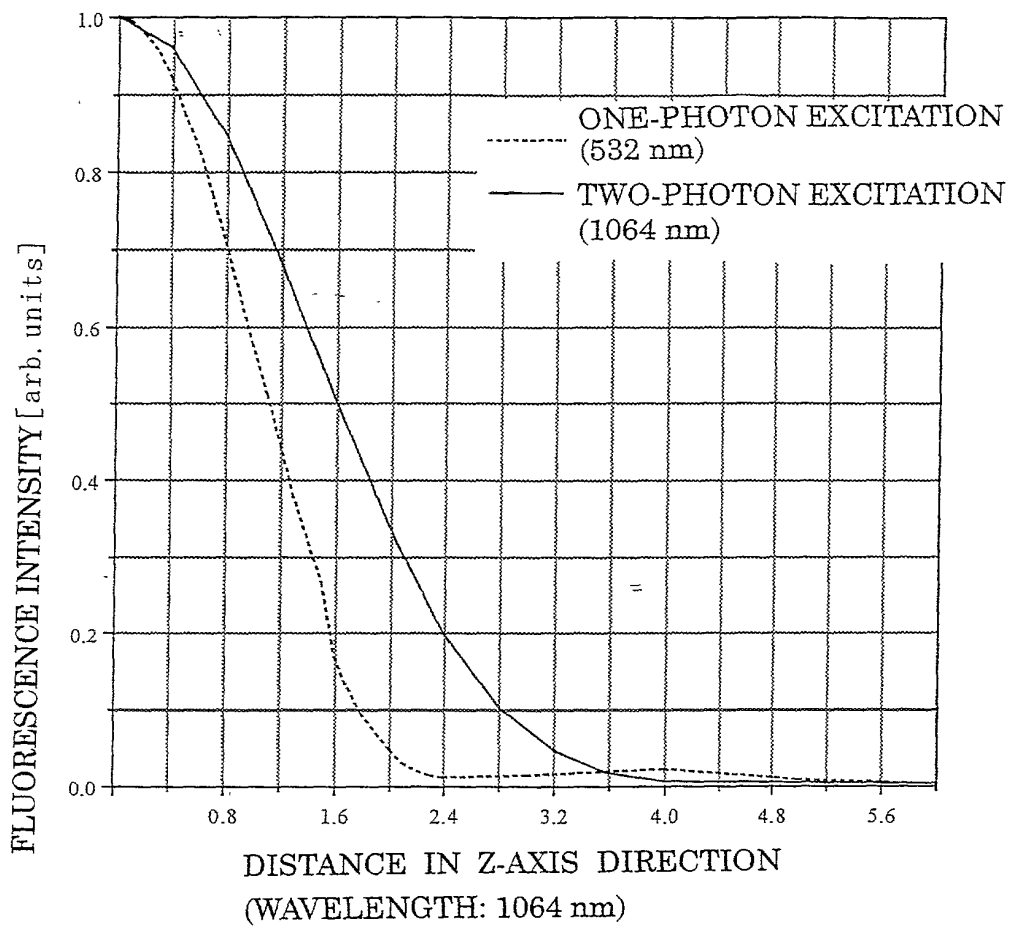


FIG. 40

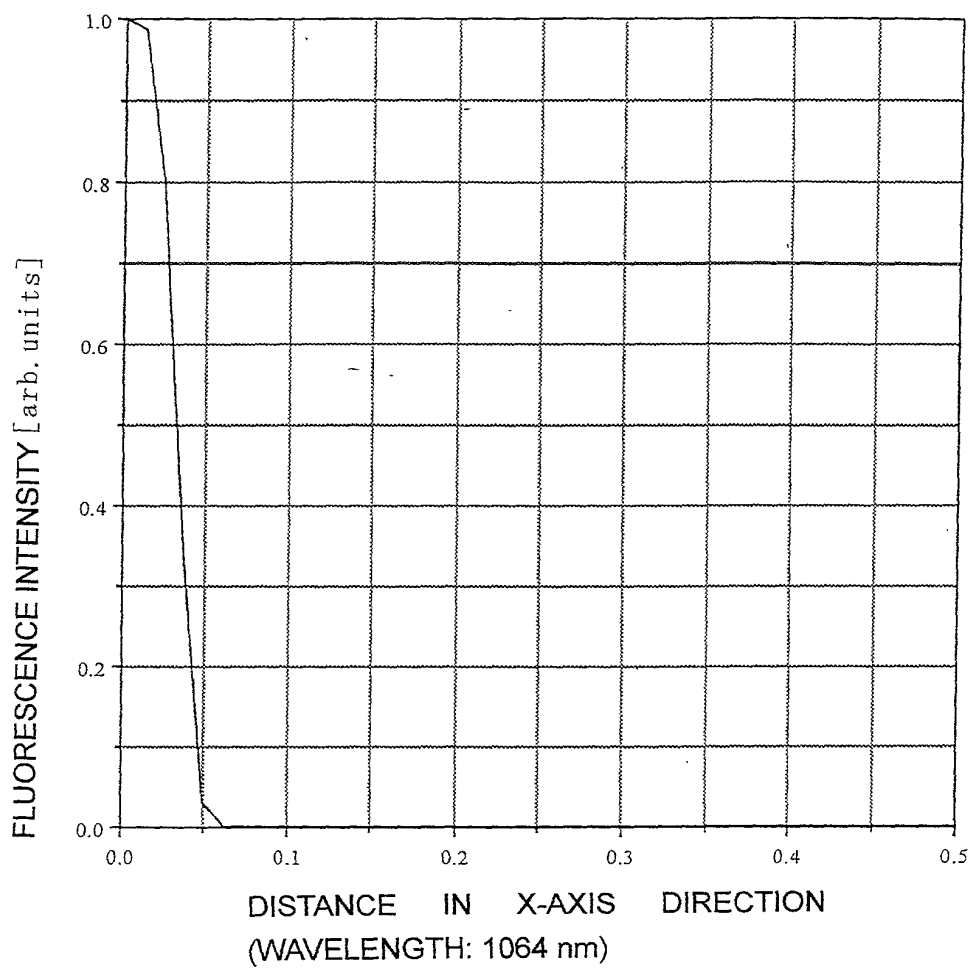


FIG. 42

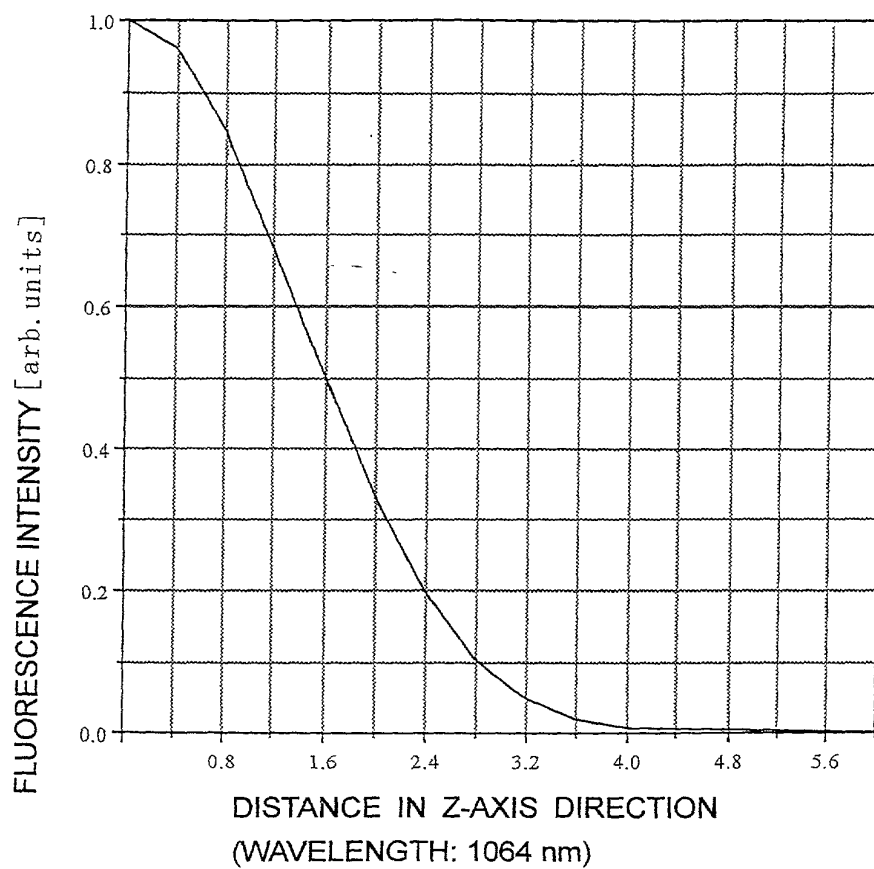


FIG. 43

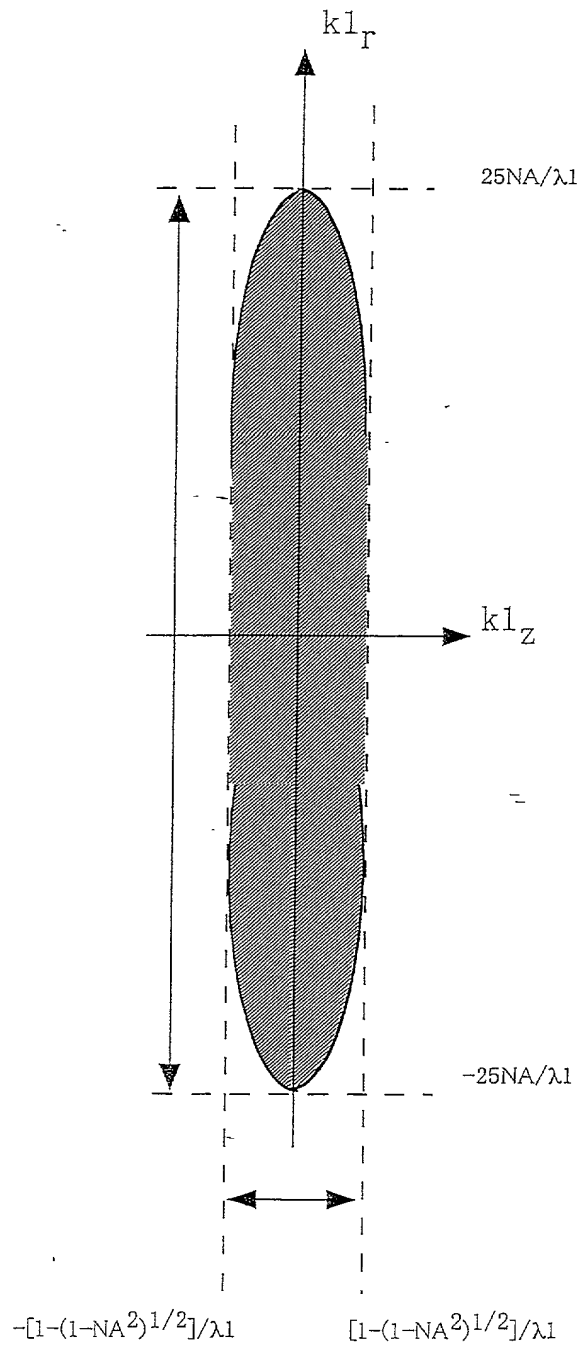


FIG. 44

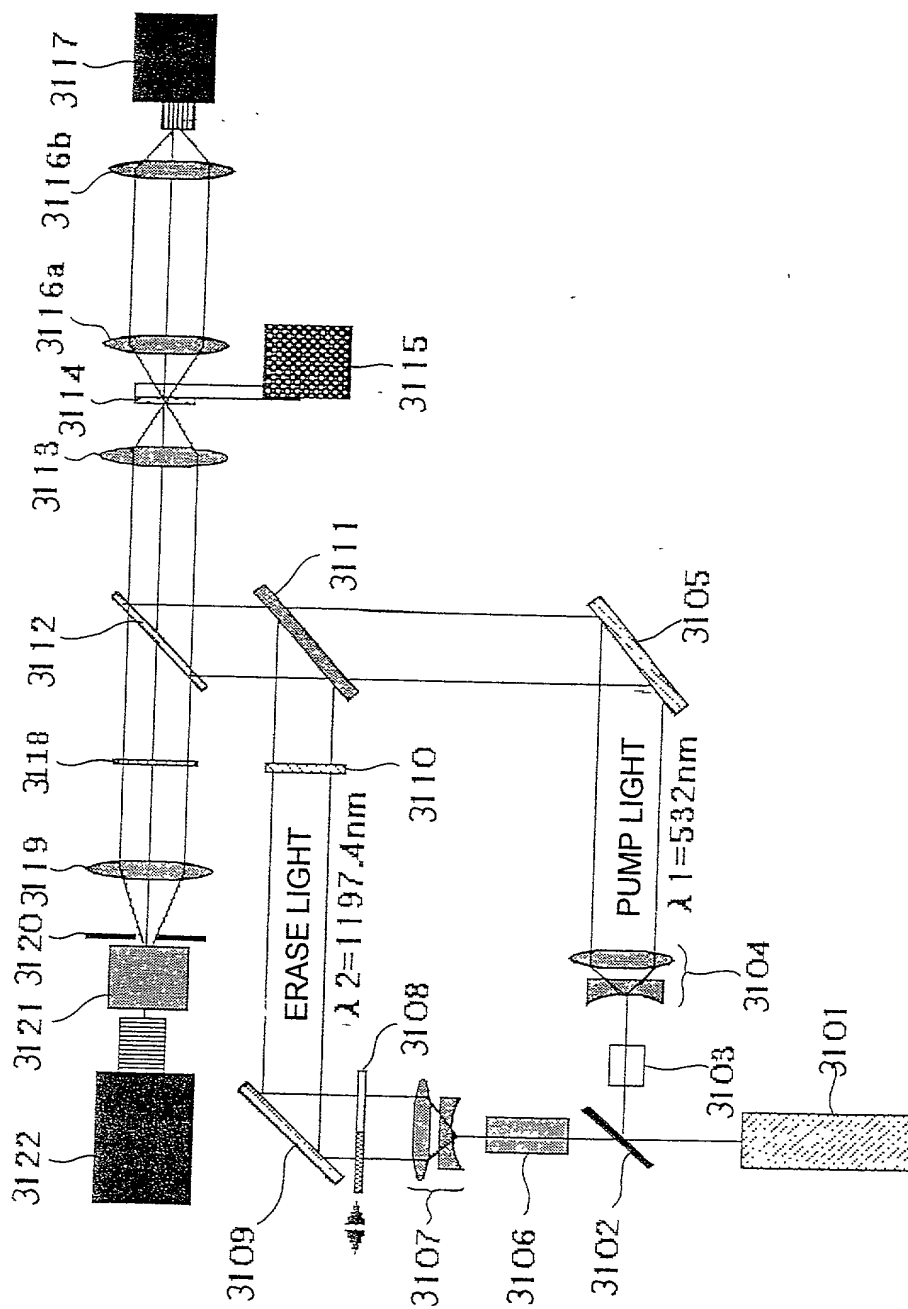


FIG. 45

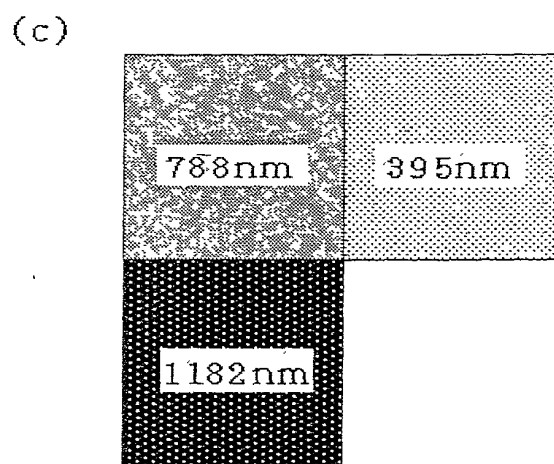
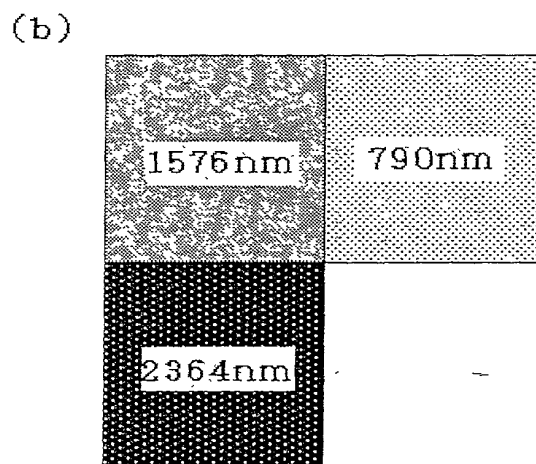
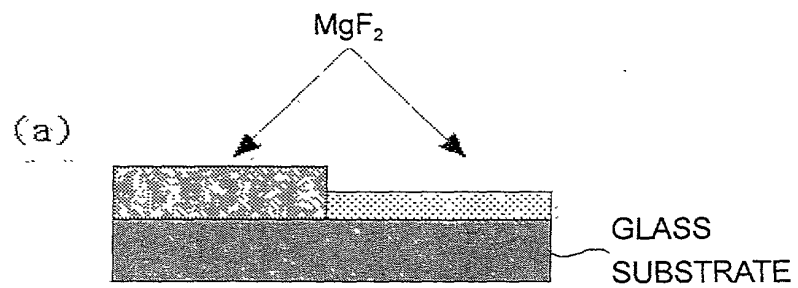


FIG. 46

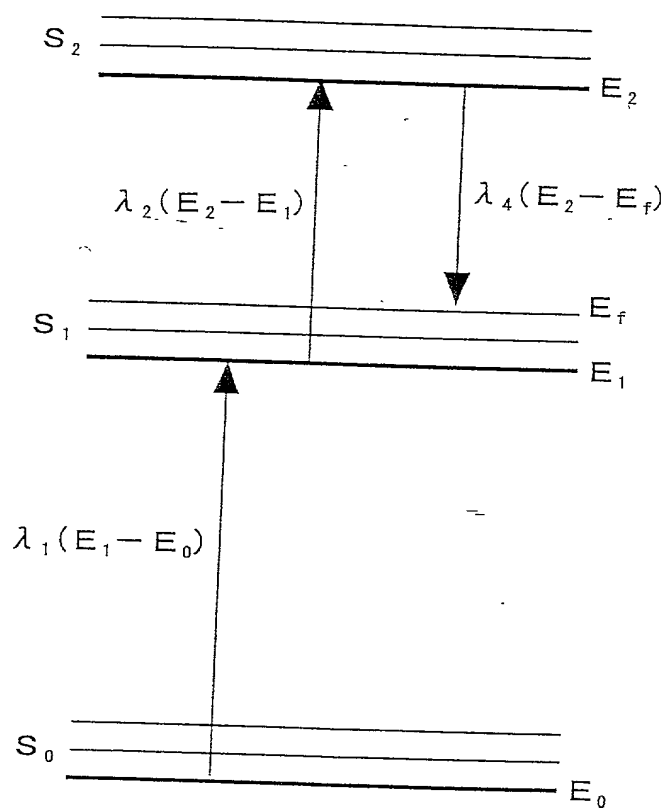


FIG. 47

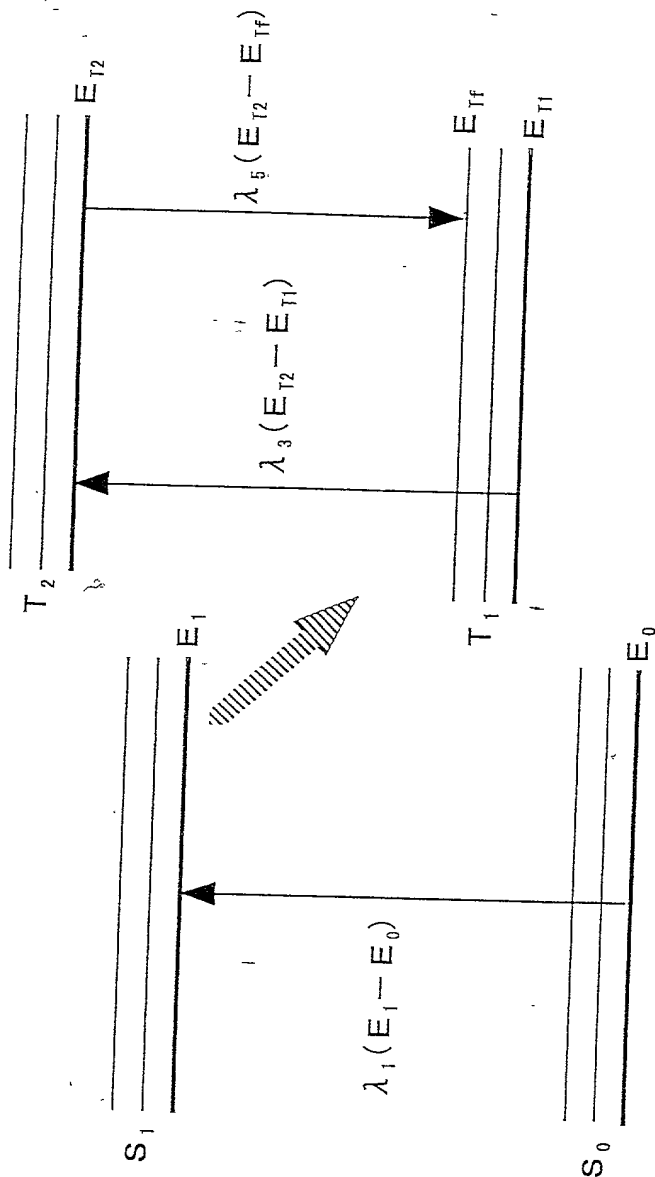


FIG. 48

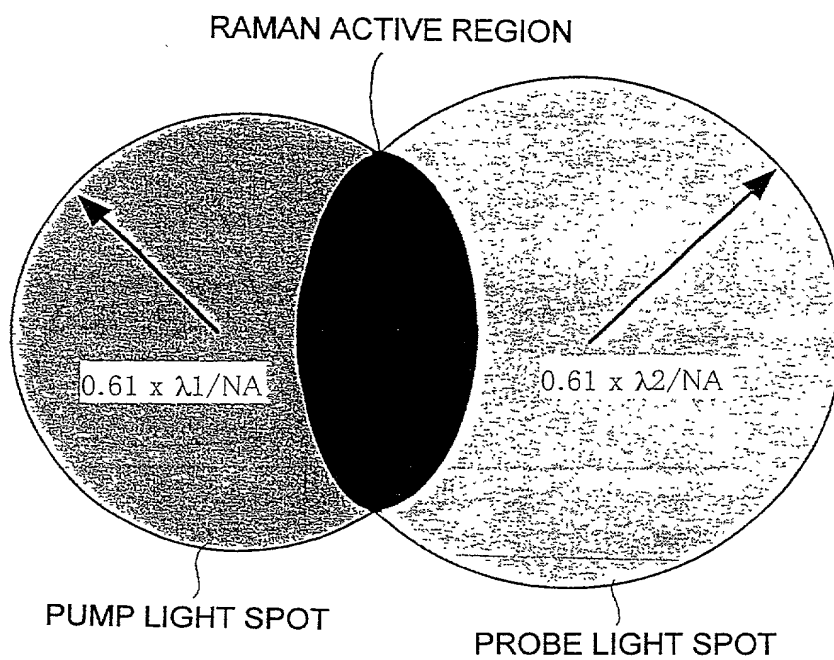
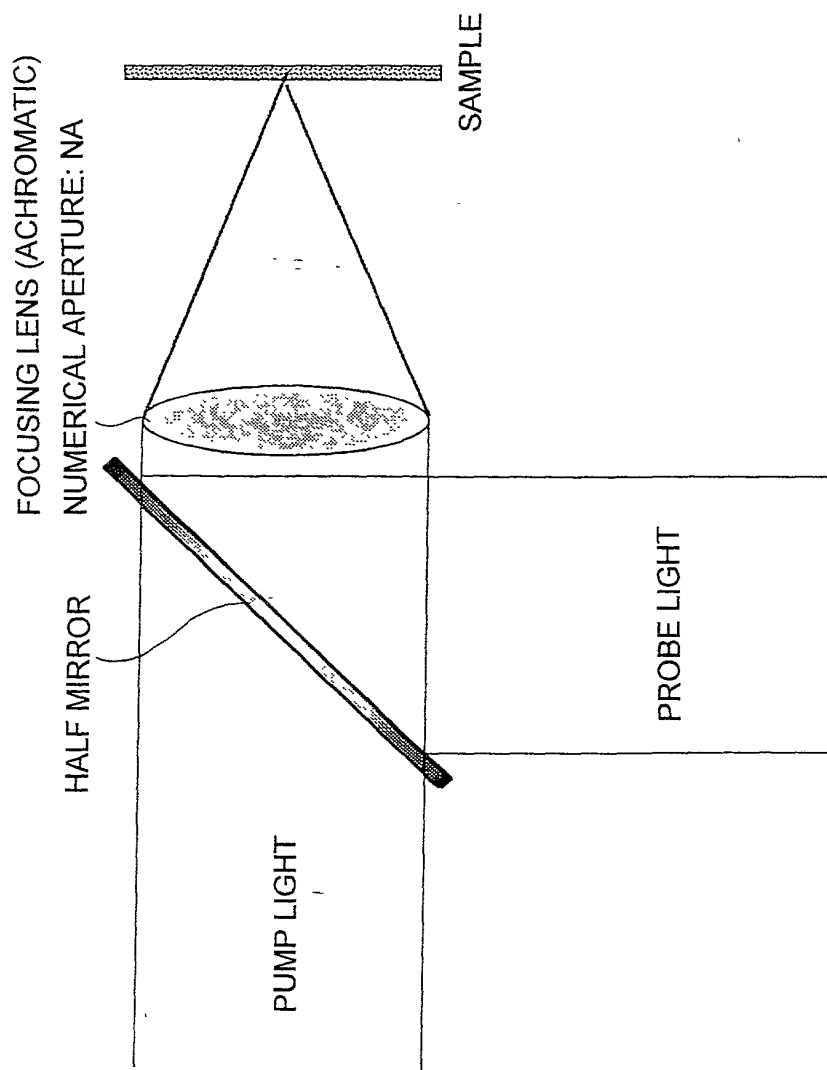


FIG. 49



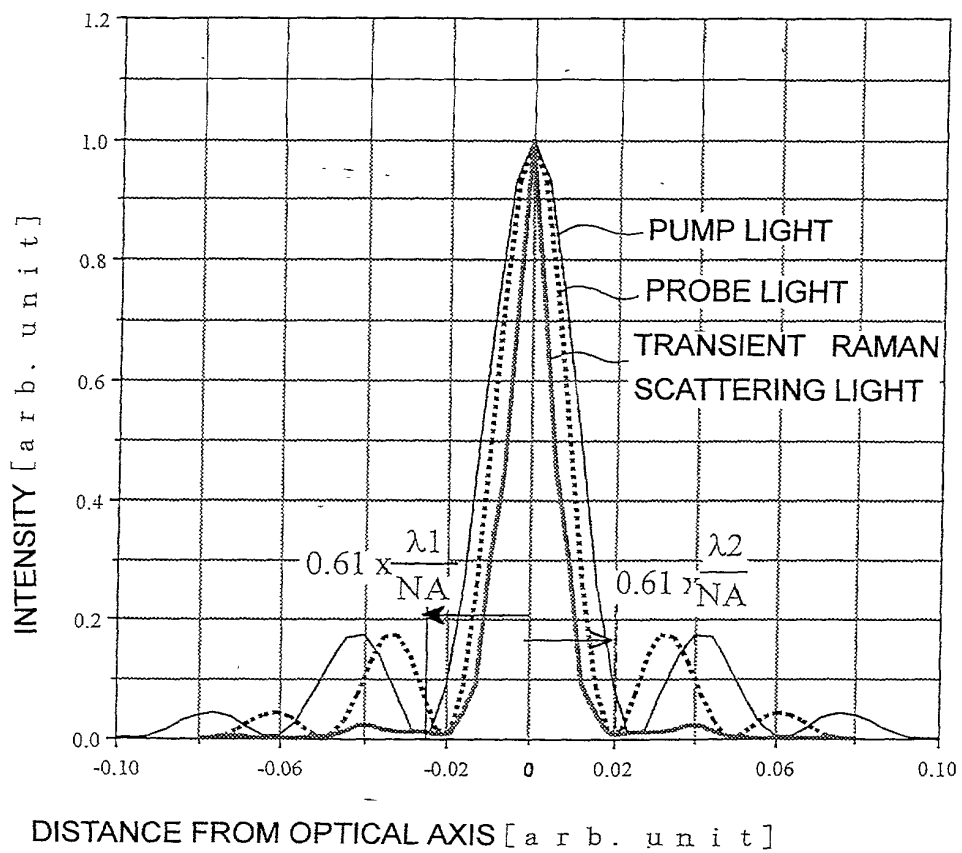
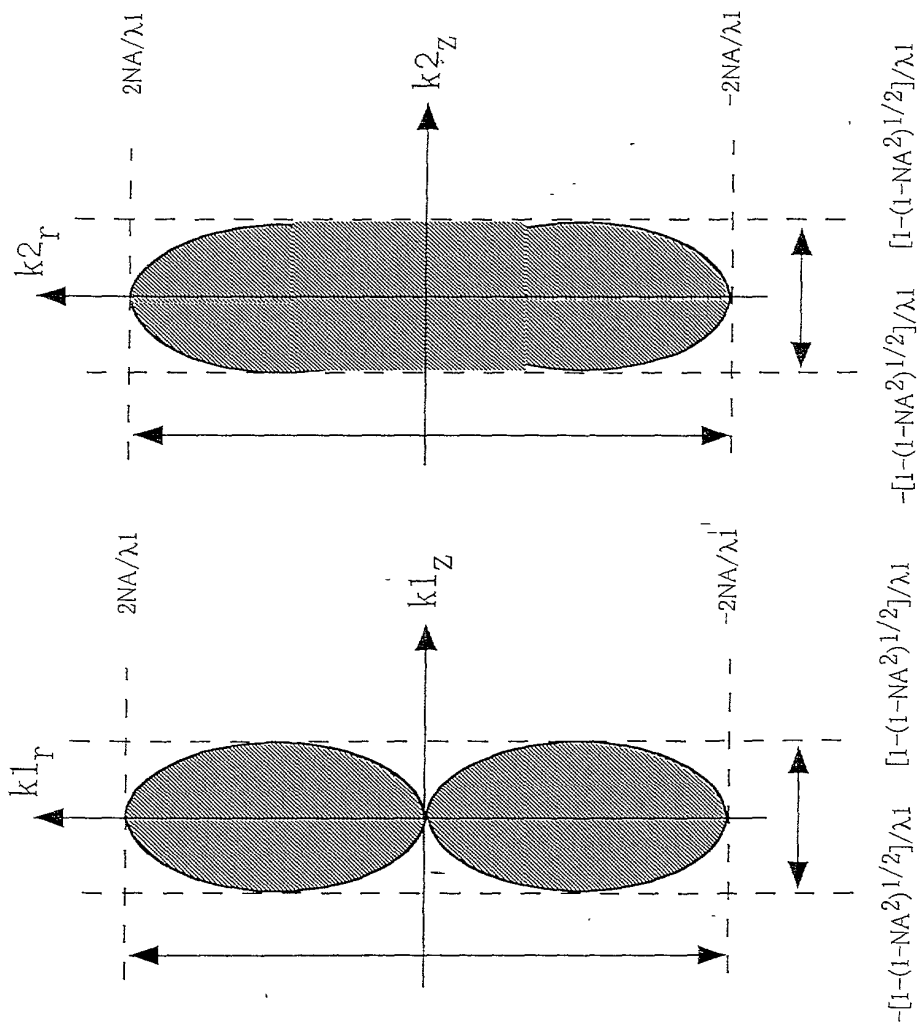


FIG. 51



(a) NORMAL ONE-PHOTON EXCITATION (b) TRANSIENT RAMAN PROCESS
PROCESS

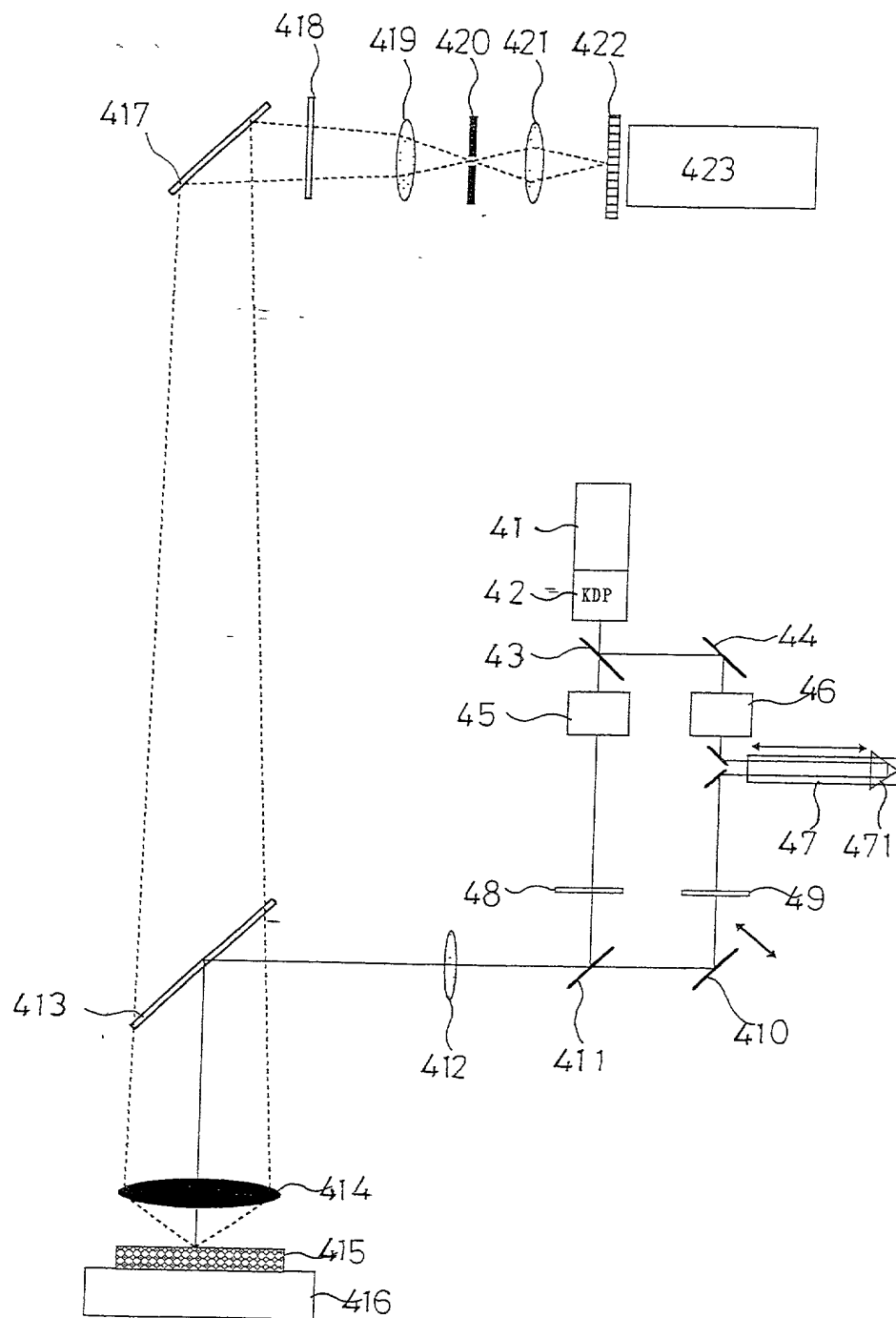


FIG. 53

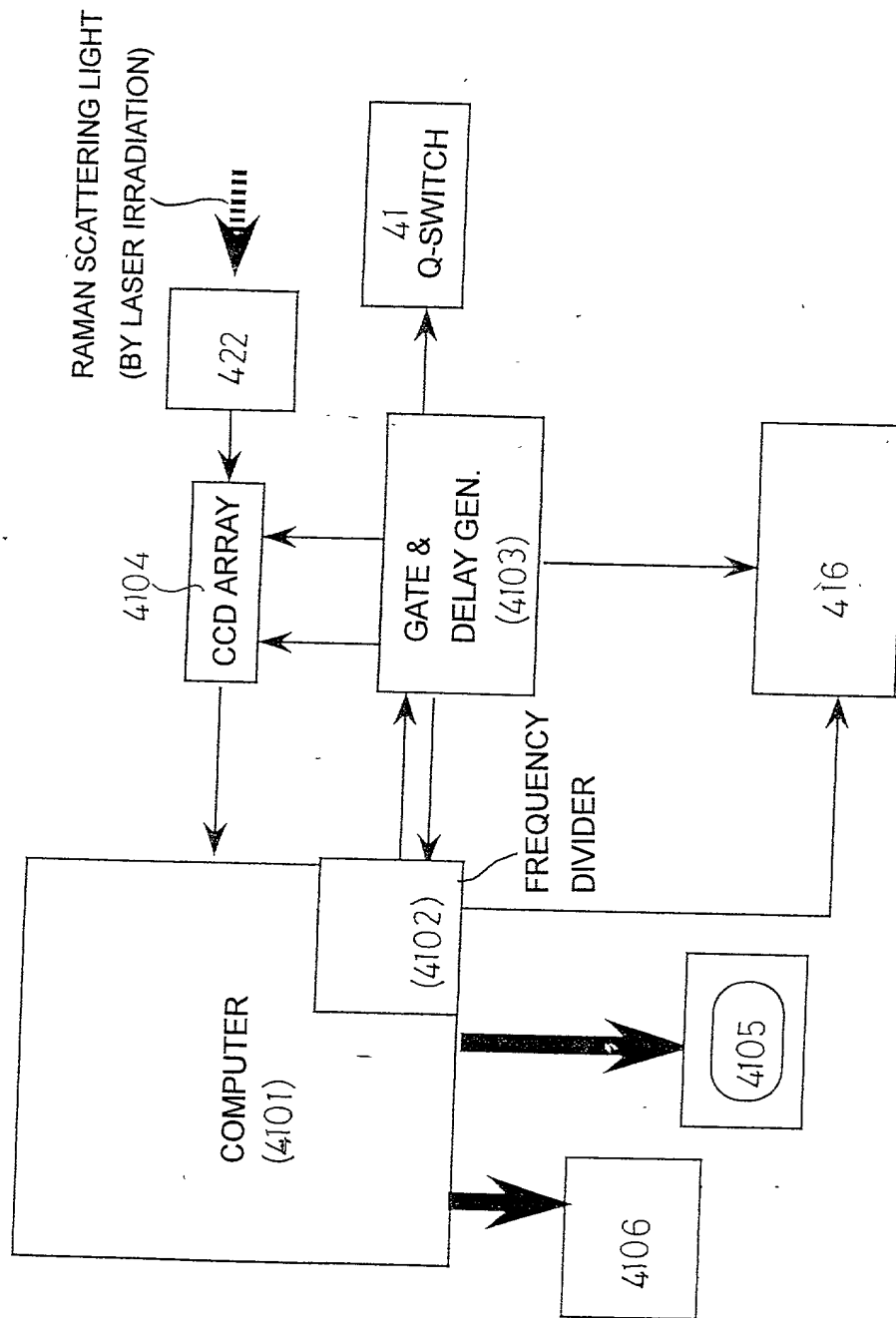


FIG. 54

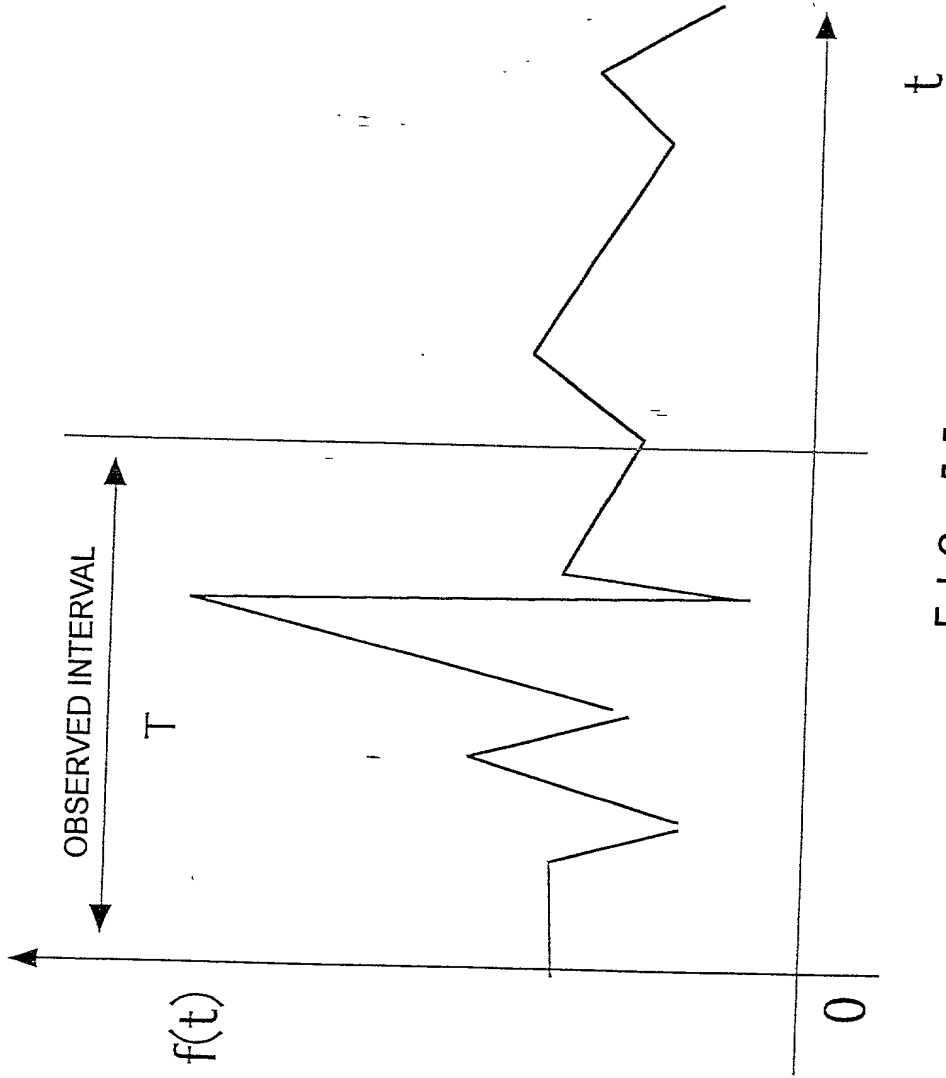


FIG. 55

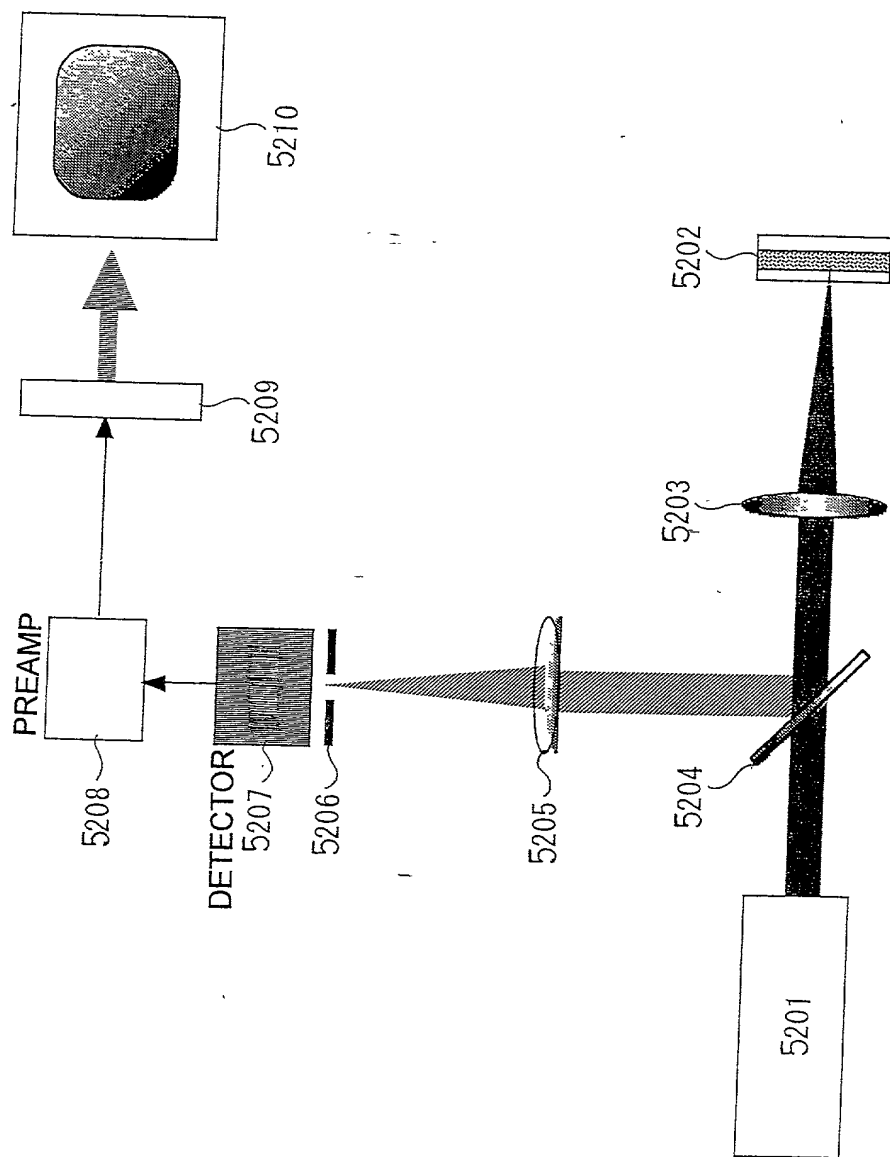


FIG. 56

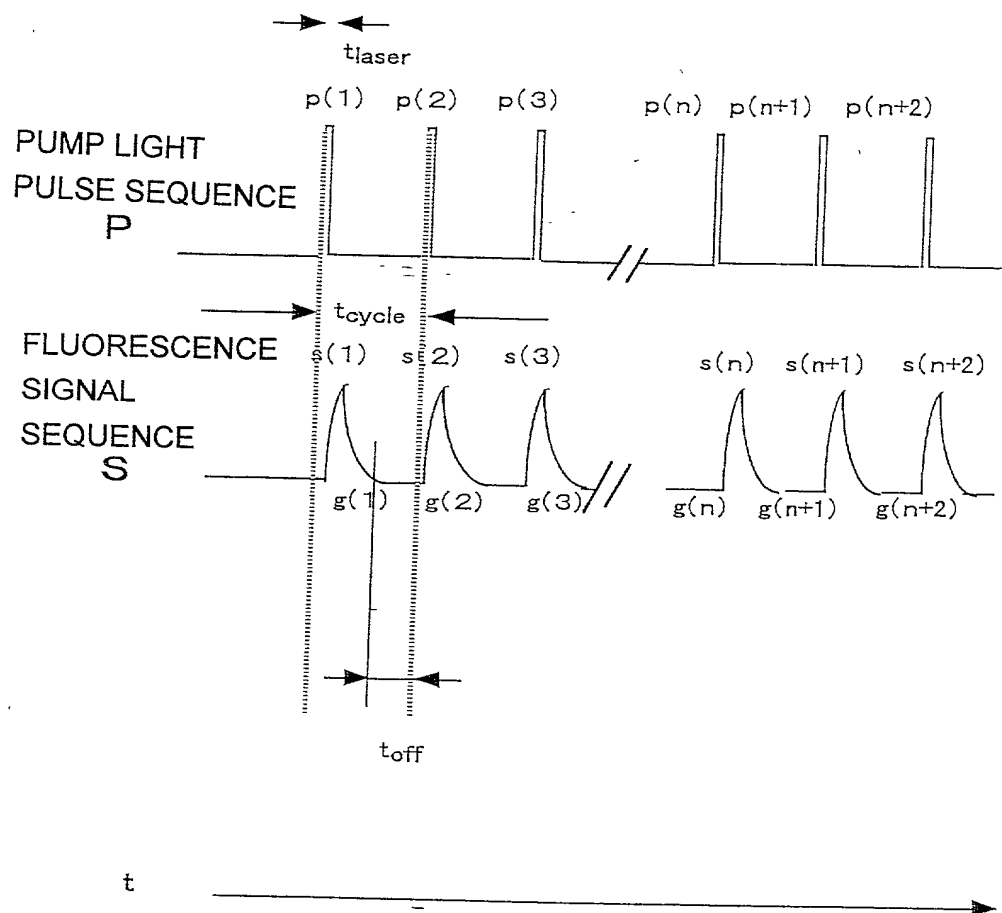


FIG. 57

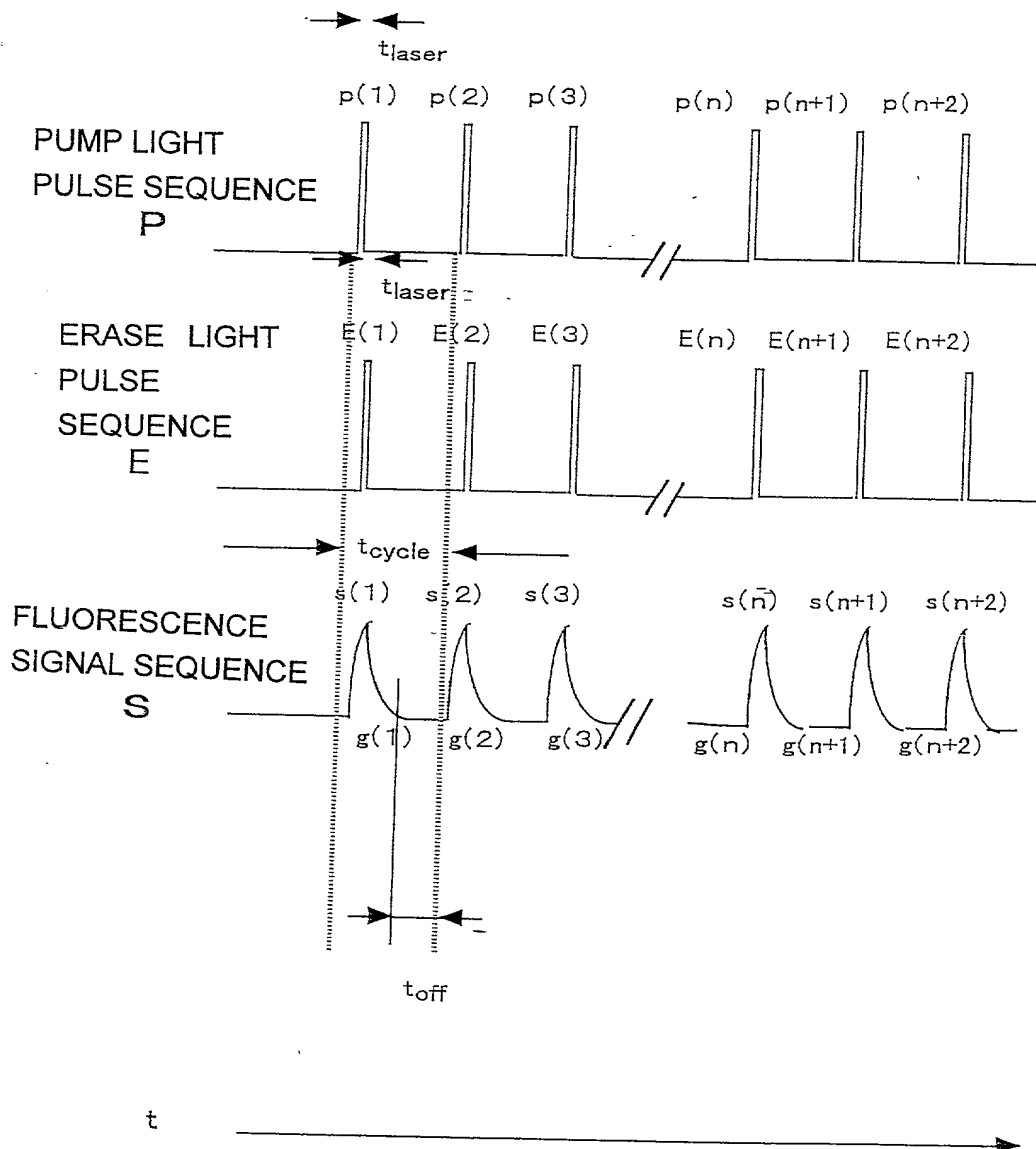


FIG. 58

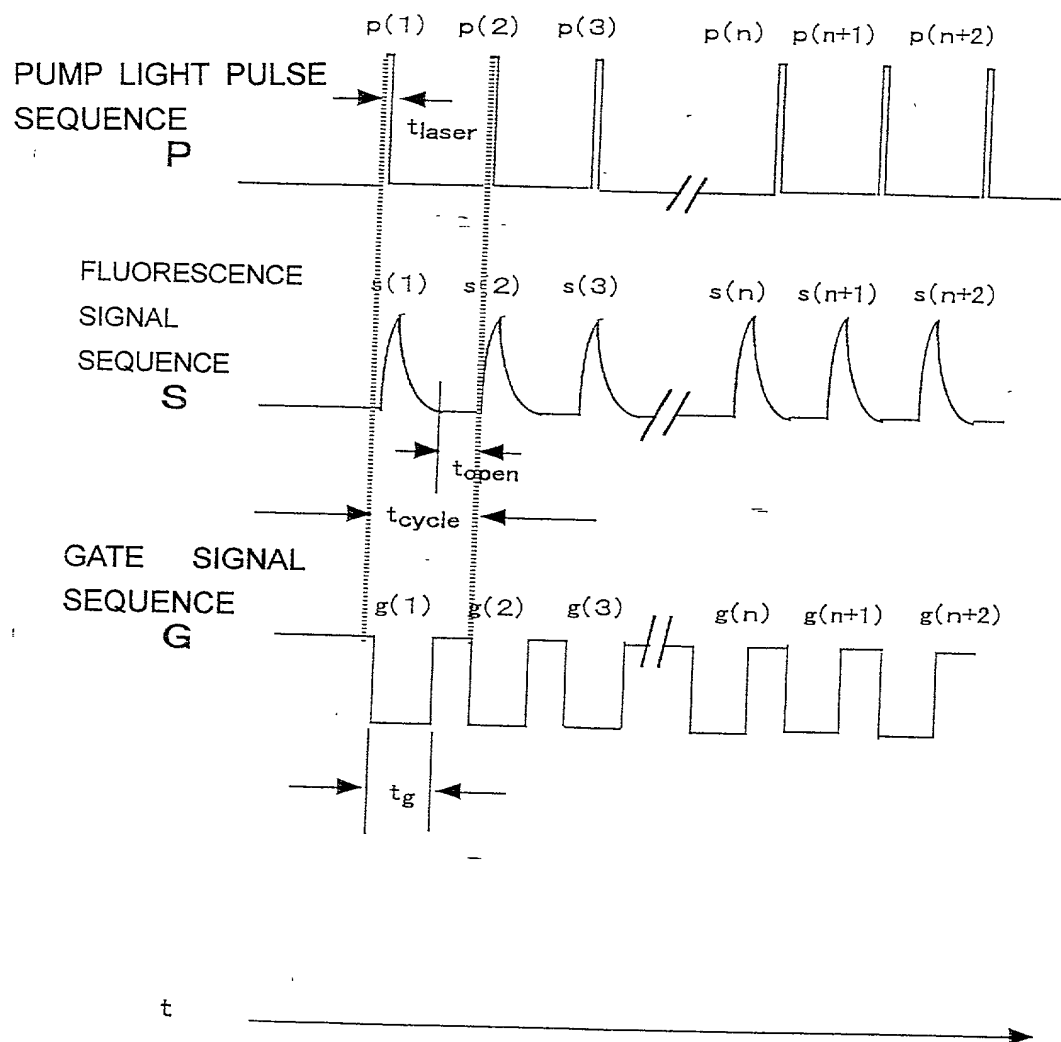


FIG. 59

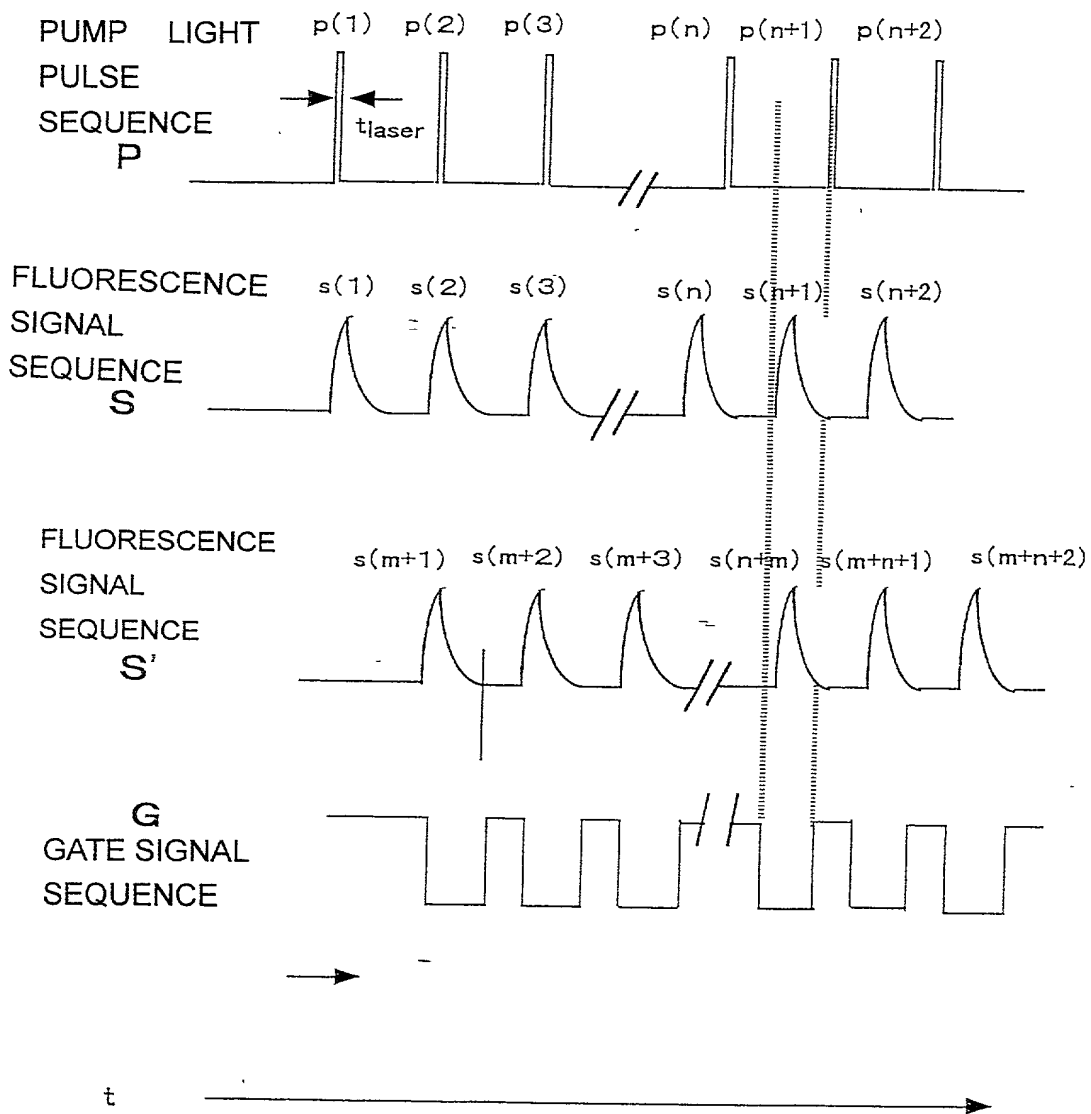


FIG. 60

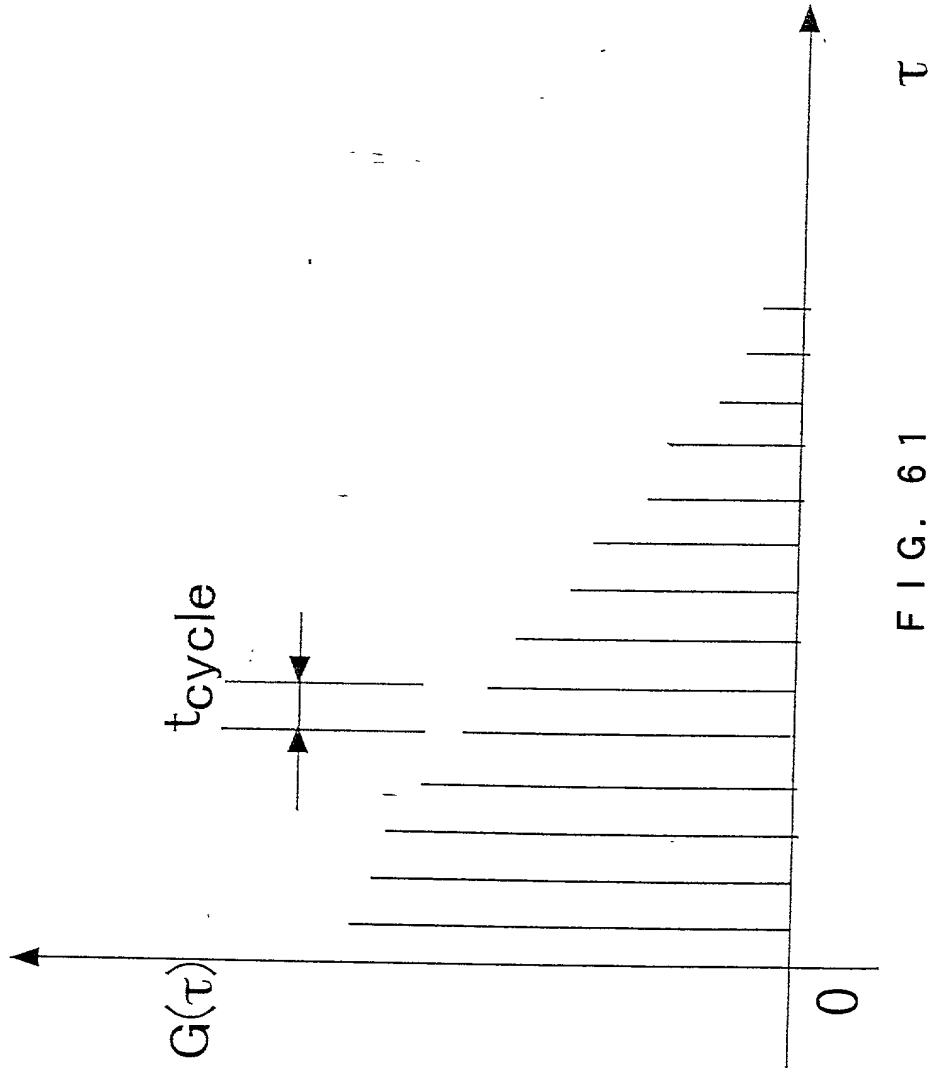


FIG. 61

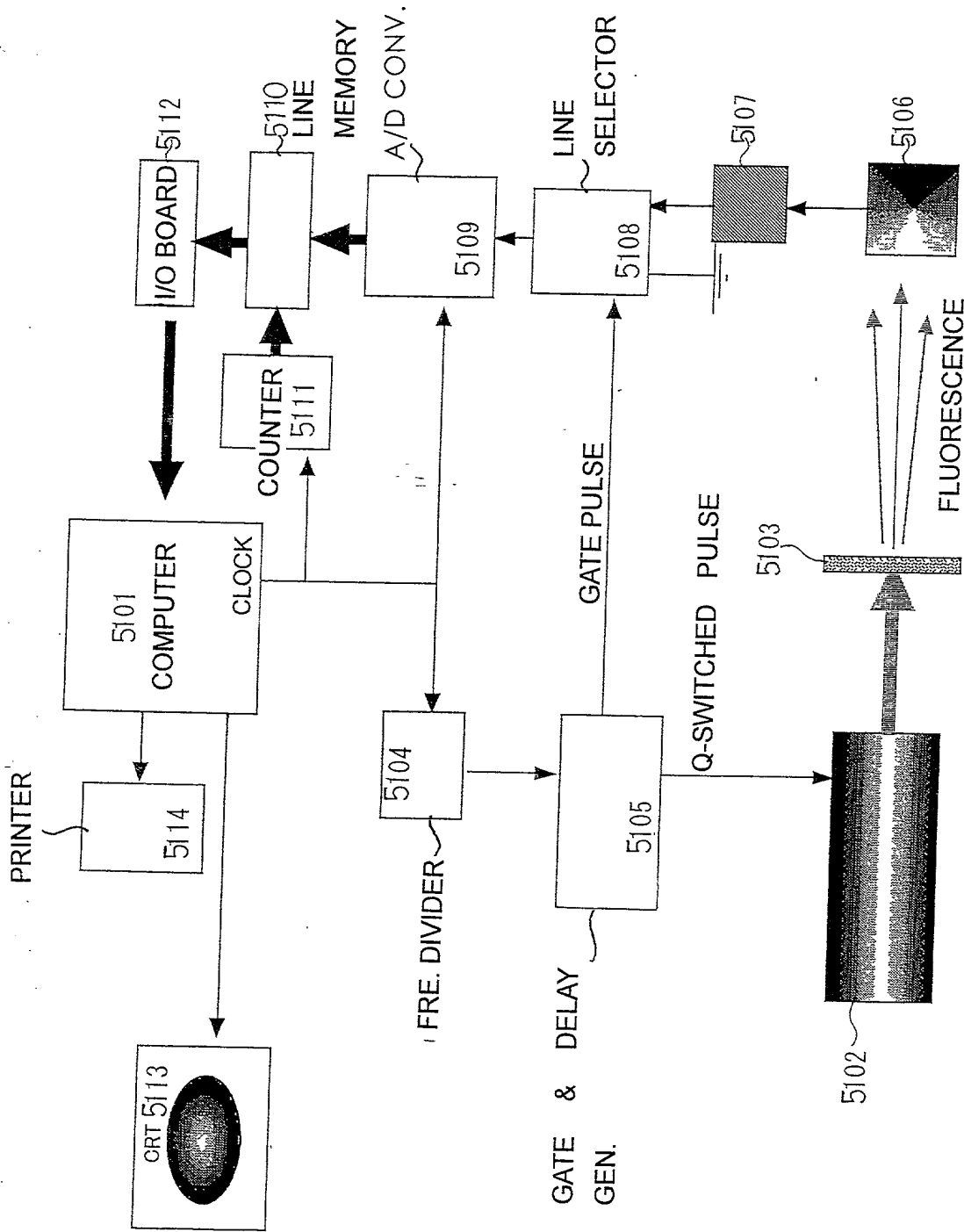


FIG. 62

SIGNAL BLOCK INTERVAL

SIGNAL ACCEPT INTERVAL
g pulses

MEMORY ACCESS
CLOCK

MEMORY
ADDRESSES

FLUORESCENCE
SIGNAL

GATE SIGNAL

PUMP LIGHT
PULSE

ERASE LIGHT
PULSE

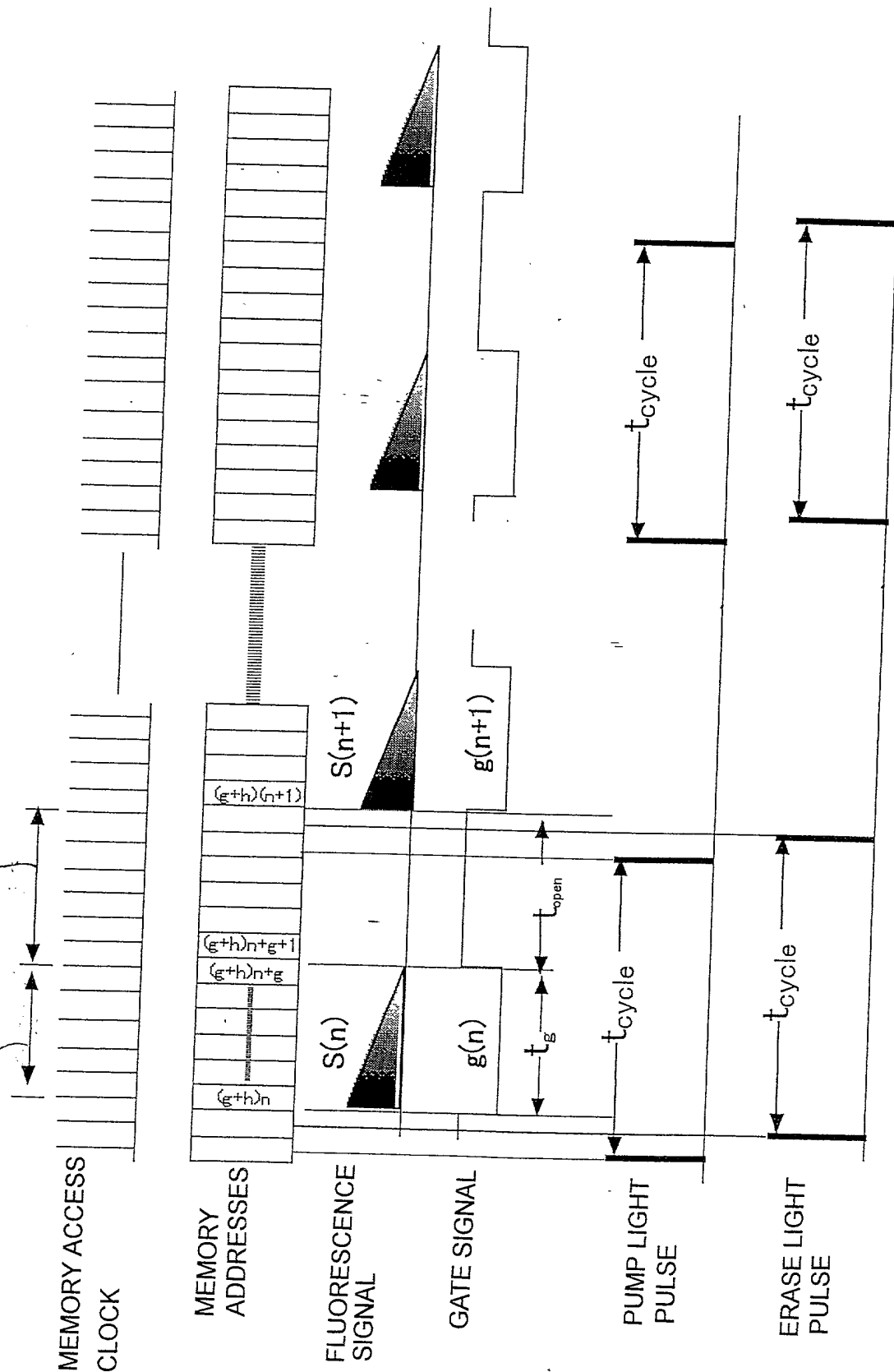


FIG. 63

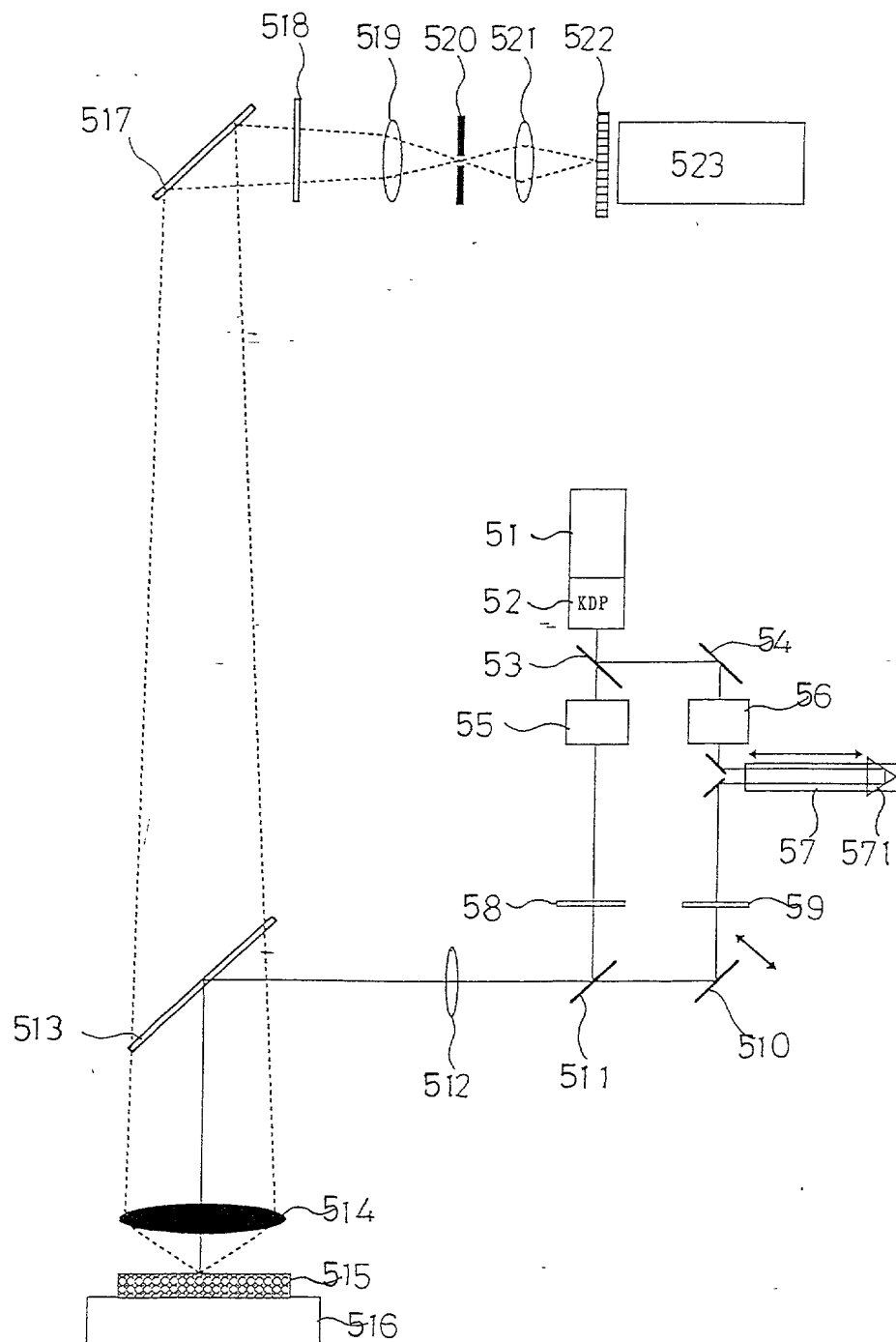


FIG. 64